

Storm Water Management Practice Maintenance Agreement

Kwik Trip Inc, as “Owner” of the property described below, in accordance with Chapter 32 City of Waukesha Storm Water Management and Erosion Control, agrees to install and maintain storm water management practice(s) on the subject property in accordance with approved plans and Storm Water Management Plan conditions. The owner further agrees to the terms stated in this document to ensure that the storm water management practice(s) continues serving the intended functions in perpetuity. This Agreement includes the following exhibits:

Exhibit A: Legal Description of the real estate for which this Agreement applies (“Property”).

Exhibit B: Location Map(s) – shows an accurate location of each storm water management practice affected by this Agreement.

Exhibit C: Maintenance Plan – prescribes those activities that must be carried out to maintain compliance with this Agreement.

Note: After construction verification has been accepted by the City of Waukesha, for all planned storm water management practices, an addendum(s) to this agreement shall be recorded by the Owner showing design and construction details. The addendum(s) may contain several additional exhibits, including certification by City of Waukesha of Storm Water and Erosion Control Permit termination, as described below.

Through this Agreement, the Owner hereby subjects the Property to the following covenants, conditions and restrictions:

1. The Owner shall be responsible for the routine and extraordinary maintenance and repair of the storm water management practice(s) and drainage easements identified in Exhibit B until Storm Water and Erosion Control Permit termination by the City of Waukesha in accordance with Chapter 32 of the City Code of Ordinances.
2. After Storm Water and Erosion Control Permit termination under 1., the current Owner(s) shall be solely responsible for maintenance and repair of the storm water management practices and drainage easements in accordance with the maintenance plan contained in Exhibit C.
3. The Owner(s) shall, at their own cost, complete inspections of the storm water management practices at the time intervals listed in Exhibit C, and conduct the inspections by a qualified professional, file the reports with the City of Waukesha after each inspection and complete any maintenance or repair work recommended in the report. The Owner(s) shall be liable for the failure to undertake any maintenance or repairs. After the work is completed by the Contractor, the qualified professional shall verify that the work was properly completed and submit the follow-up report to the City within 30 days.
4. In addition, and independent of the requirements under paragraph 3 above, the City of Waukesha, or its designee, is authorized to access the property as necessary to conduct inspections of the storm water management practices or drainage easements to ascertain compliance with the intent of this Agreement and the activities prescribed in Exhibit C. The City of Waukesha may require work to be done which differs from the report described in paragraph 3 above, if the City of Waukesha reasonably concludes that such work is necessary and consistent with the intent of this agreement. Upon notification by the City of Waukesha of required maintenance or repairs, the Owner(s) shall complete the specified maintenance or repairs within a reasonable time frame determined by the City of Waukesha.
5. If the Owner(s) do not complete an inspection under 3. above or required maintenance or repairs under 4. above within the specified time period, the City of Waukesha is authorized, but not required, to perform the specified inspections, maintenance or repairs. In the case of an emergency situation, as determined by the City of Waukesha, no notice shall be required prior to the City of Waukesha performing emergency maintenance or repairs. The City of Waukesha may levy the costs and expenses of such inspections, maintenance or repair related actions as a special charge against the Property and collected as such in accordance with the procedures under s. 66.0627 Wis. Stats. or subch. VII of ch. 66 Wis. Stats.

Name and Return Address

City of Waukesha
130 Delafield Street
Waukesha, WI 53188

Parcel Identification Number(s) – (PIN)

Tax ID: WAKC1130994004

6. This Agreement shall run with the Property and be binding upon all heirs, successors and assigns. After the Owner records the addendum noted above, the City of Waukesha shall have the sole authority to modify this agreement upon a 30-day notice to the current Owner(s).

Dated this ___ day of _____, 201_.

Owner:

(Owners Signature)

(Owners Typed Name)

Acknowledgements

State of Wisconsin:
County of Waukesha

Personally came before me this ___ day of _____, 201_, the above named _____ to me known to be the person who executed the foregoing instrument and acknowledged the same.

[Name]

Notary Public, Waukesha County, WI

My commission expires:_____.

This document was drafted by:

[Name and address of drafter]

For Certification Stamp

City of Waukesha Common Council Approval

Dated this ____ day of _____, 201_.

Shawn N. Reilly, Mayor

Gina Kozlik, City Clerk

Acknowledgements

State of Wisconsin:
County of Waukesha

Personally came before me this ____ day of _____, 201_, the above named _____ to me known to be the person who executed the foregoing instrument and acknowledged the same.

[Name]
Notary Public, Waukesha County, WI
My commission expires:_____.

Exhibit A – Legal Description/ALTA Survey

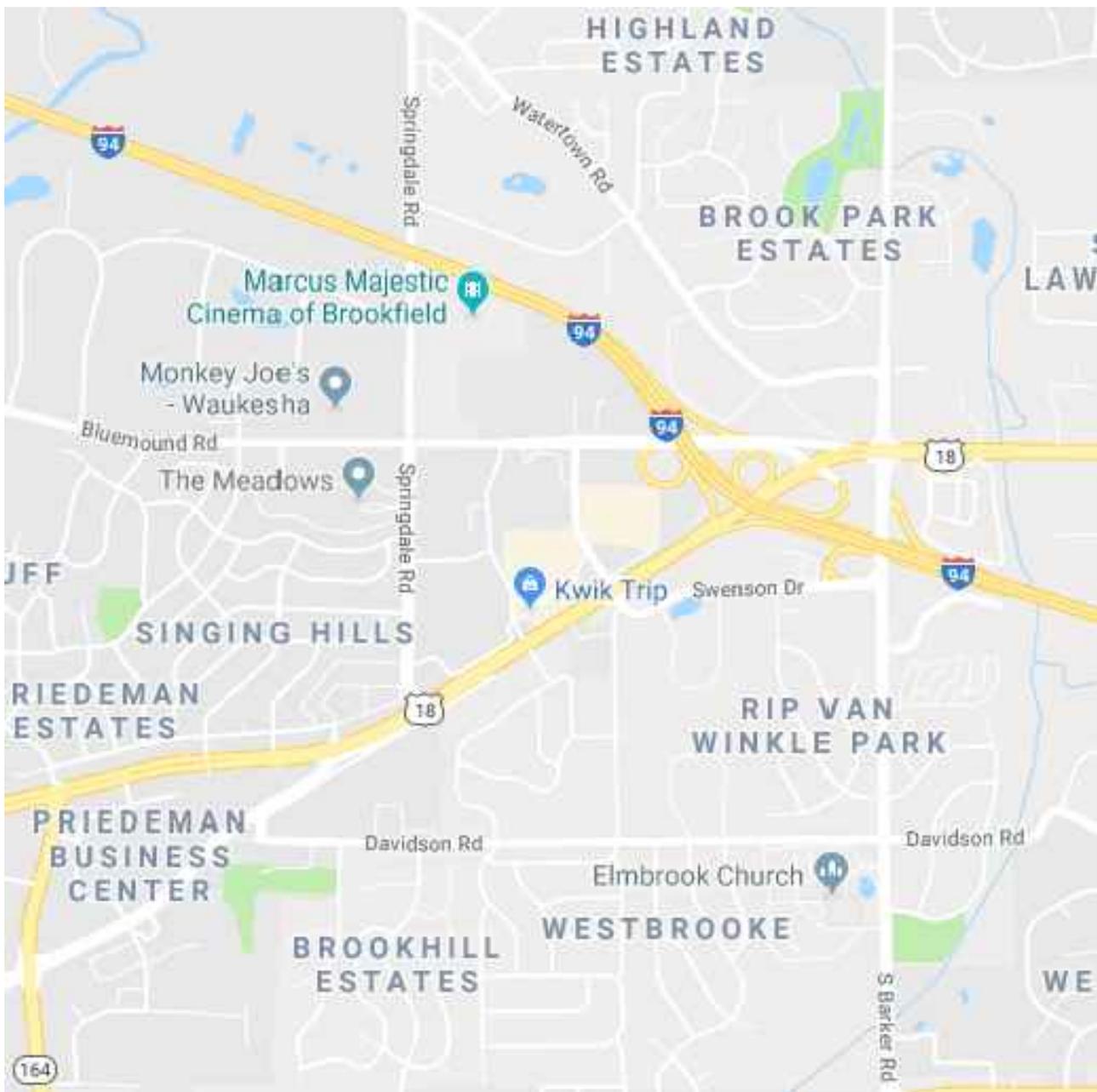
Project Identifier: **Kwik Trip Store 968** Acres: **0.6617**
Legal Description: **Known as 2302 E. Moreland Blvd, in the City of Waukesha, Waukesha County, Wisconsin.**

Parcel A

Certified Survey Map No. 1153 filed in the Office of the Register of Deeds for Waukesha County, Wisconsin on January 14, 1970, in Volume 7 of Certified Survey Maps, on Page 312, as Document No. 754076, and corrected by Affidavit of Correction recorded on March 9, 1970 in Volume 1185 of Deeds, page 400 as Document No. 756530 being a part of the Northwest Quarter (NW 1/4) of Section Thirty-one (31), Township Seven (7) North, Range Twenty (20) East, in the City of Waukesha, Waukesha County, Wisconsin.

Parcel B

Together with a non-exclusive easement for ingress and egress over Easement Area "B" as contained in a Warranty Deed recorded on May 15, 1970 in Volume 1192 of Deeds at page 143, as Document No. 760396.



ALTA/NSPS LAND TITLE SURVEY WITH TOPOGRAPHIC DATA

Known as 2302 East Moreland Boulevard, in the City of Waukesha, Waukesha County, Wisconsin.

Parcel A

Certified Survey Map No. 1153 filed in the Office of the Register of Deeds for Waukesha County, Wisconsin on January 14, 1970, in Volume 7 of Certified Survey Maps, on Page 312, as Document No. 754076, and corrected by Affidavit of Correction recorded on March 9, 1970 in Volume 1185 of Deeds, page 400 as Document No. 756530 being a part of the Northwest Quarter (NW 1/4) of Section Thirty-one (31), Township Seven (7) North, Range Twenty (20) East, in the City of Waukesha, Waukesha County, Wisconsin.

Parcel B

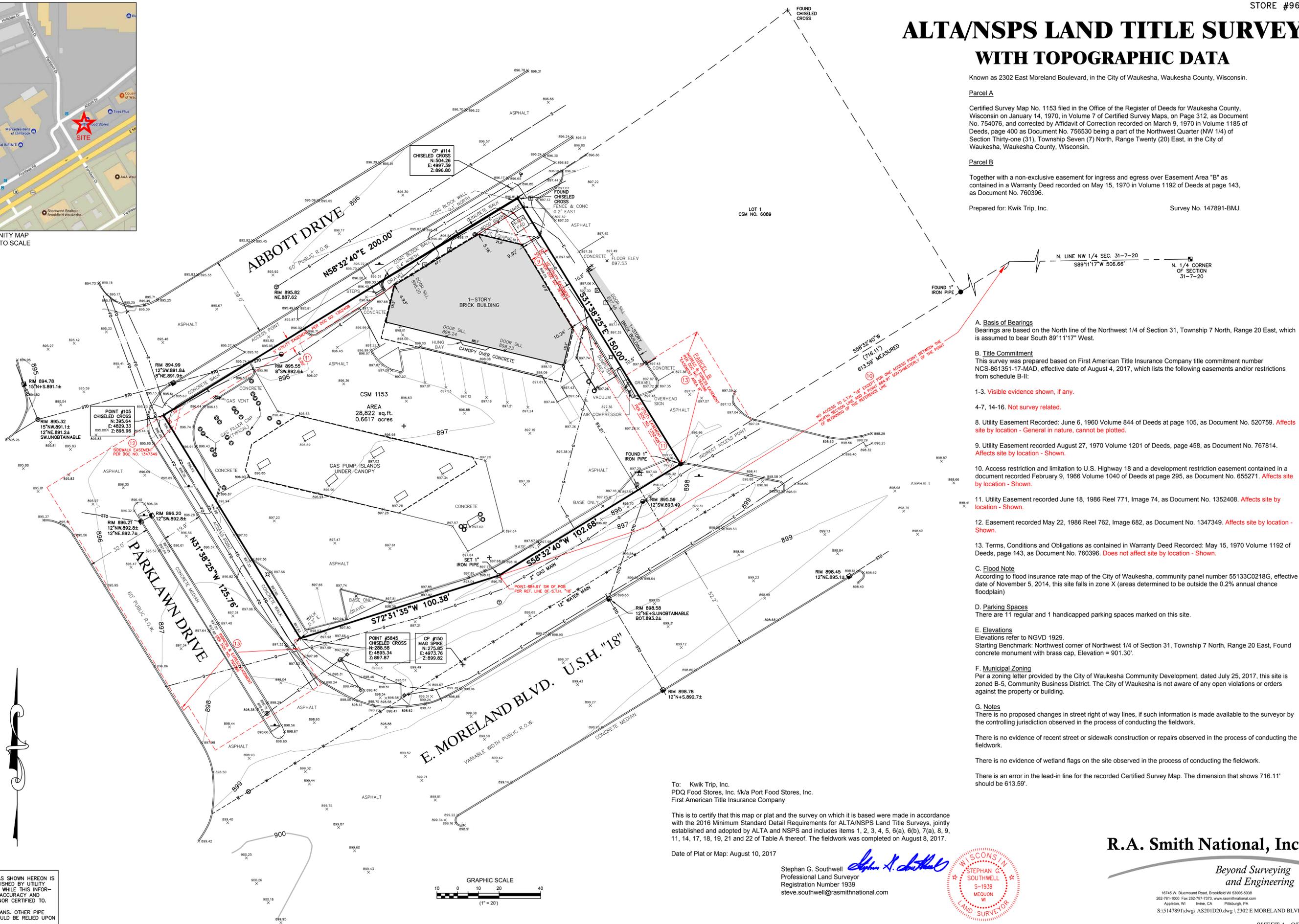
Together with a non-exclusive easement for ingress and egress over Easement Area "B" as contained in a Warranty Deed recorded on May 15, 1970 in Volume 1192 of Deeds at page 143, as Document No. 760396.

Prepared for: Kwik Trip, Inc.

Survey No. 147891-BMJ



VICINITY MAP
NOT TO SCALE



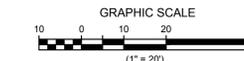
LEGEND

- () INDICATES RECORDED DIMENSION WHERE DIFFERENT FROM ACTUAL MEASUREMENT
- OR SECTION OR 1/4 SECTION CORNER AS DESCRIBED
- 1" DIA. IRON PIPE FOUND (UNLESS OTHERWISE NOTED)
- 1" DIA. IRON PIPE, 18" LONG-SET (UNLESS OTHERWISE NOTED)
- BOLLARD
- SOIL BORING/MONITORING WELL
- FLAGPOLE
- MAILBOX
- SIGN
- BILLBOARD
- AIR CONDITIONER
- CONTROL PULL BOX
- TRAFFIC SIGNAL
- RAILROAD CROSSING SIGNAL
- CABLE PEDESTAL
- POWER POLE
- GUY POLE
- GUY WIRE
- LIGHT POLE
- SPOT/YARD/PEDESTAL LIGHT
- HANDICAPPED PARKING
- ELECTRIC MANHOLE
- ELECTRIC PEDESTAL
- ELECTRIC METER
- ELECTRIC TRANSFORMER
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- MARKED FIBER OPTIC
- GAS VALVE
- GAS METER
- GAS WARNING SIGN
- STORM MANHOLE
- ROUND INLET
- SQUARE INLET
- STORM SEWER END SECTION
- SANITARY MANHOLE
- SANITARY CLEANOUT OR SEPTIC VENT
- SANITARY INTERCEPTOR MANHOLE
- MISCELLANEOUS MANHOLE
- WATER VALVE
- HYDRANT
- WATER SERVICE CURB STOP
- WATER MANHOLE
- WELL
- WATER SURFACE
- WETLANDS FLAG
- MARSH
- CONIFEROUS TREE
- DECIDUOUS TREE
- SHRUB
- EDGE OF TREES
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- MARKED GAS MAIN
- MARKED ELECTRIC
- OVERHEAD WIRES
- BURIED ELEC. SERV.
- MARKED TELEPHONE
- MARKED CABLE TV LINE
- MARKED FIBER OPTIC
- INDICATES EXISTING CONTOUR ELEVATION
- INDICATES EXISTING SPOT ELEVATION

DIGGERS HOTLINE NO. 2017-30-00638

THE UNDERGROUND UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.

(P) INDICATES PIPE SIZES PER RECORD PLANS. OTHER PIPE SIZES ARE ESTIMATED. NO PIPE SIZES SHOULD BE RELIED UPON WITHOUT FURTHER VERIFICATION.



To: Kwik Trip, Inc.
PDQ Food Stores, Inc. f/k/a Port Food Stores, Inc.
First American Title Insurance Company

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS and includes items 1, 2, 3, 4, 5, 6(a), 6(b), 7(a), 8, 9, 11, 14, 17, 18, 19, 21 and 22 of Table A thereof. The fieldwork was completed on August 8, 2017.

Date of Plat or Map: August 10, 2017

Stephan G. Southwell
Professional Land Surveyor
Registration Number 1939
steve.southwell@rasmithnational.com



- A. Basis of Bearings**
Bearings are based on the North line of the Northwest 1/4 of Section 31, Township 7 North, Range 20 East, which is assumed to bear South 89°11'17" West.
- B. Title Commitment**
This survey was prepared based on First American Title Insurance Company title commitment number NCS-861351-17-MAD, effective date of August 4, 2017, which lists the following easements and/or restrictions from schedule B-II:
 - 1-3. Visible evidence shown, if any.
 - 4-7, 14-16. Not survey related.
 8. Utility Easement recorded: June 6, 1960 Volume 844 of Deeds at page 105, as Document No. 520759. **Affects site by location - General in nature, cannot be plotted.**
 9. Utility Easement recorded August 27, 1970 Volume 1201 of Deeds, page 458, as Document No. 767814. **Affects site by location - Shown.**
 10. Access restriction and limitation to U.S. Highway 18 and a development restriction easement contained in a document recorded February 9, 1966 Volume 1040 of Deeds at page 295, as Document No. 655271. **Affects site by location - Shown.**
 11. Utility Easement recorded June 18, 1986 Reel 771, Image 74, as Document No. 1352408. **Affects site by location - Shown.**
 12. Easement recorded May 22, 1986 Reel 762, Image 682, as Document No. 1347349. **Affects site by location - Shown.**
 13. Terms, Conditions and Obligations as contained in Warranty Deed Recorded: May 15, 1970 Volume 1192 of Deeds, page 143, as Document No. 760396. **Does not affect site by location - Shown.**
- C. Flood Note**
According to flood insurance rate map of the City of Waukesha, community panel number 55133C0218G, effective date of November 5, 2014, this site falls in zone X (areas determined to be outside the 0.2% annual chance floodplain)
- D. Parking Spaces**
There are 11 regular and 1 handicapped parking spaces marked on this site.
- E. Elevations**
Elevations refer to NGVD 1929.
Starting Benchmark: Northwest corner of Northwest 1/4 of Section 31, Township 7 North, Range 20 East, Found concrete monument with brass cap, Elevation = 901.30'
- F. Municipal Zoning**
Per a zoning letter provided by the City of Waukesha Community Development, dated July 25, 2017, this site is zoned B-5, Community Business District. The City of Waukesha is not aware of any open violations or orders against the property or building.
- G. Notes**
There is no proposed changes in street right of way lines, if such information is made available to the surveyor by the controlling jurisdiction observed in the process of conducting the fieldwork.

There is no evidence of recent street or sidewalk construction or repairs observed in the process of conducting the fieldwork.

There is no evidence of wetland flags on the site observed in the process of conducting the fieldwork.

There is an error in the lead-in line for the recorded Certified Survey Map. The dimension that shows 716.11' should be 613.59'.

R.A. Smith National, Inc.

Beyond Surveying
and Engineering

16745 W. Bluemound Road, Brookfield WI 53005-9938
262-781-1000 Fax 262-797-7373, www.rasmithnational.com
Appleton WI Irvine CA Pittsburgh PA
S:\5147891\dwg\AS201D20.dwg 1/2302 E MORELAND BLVD

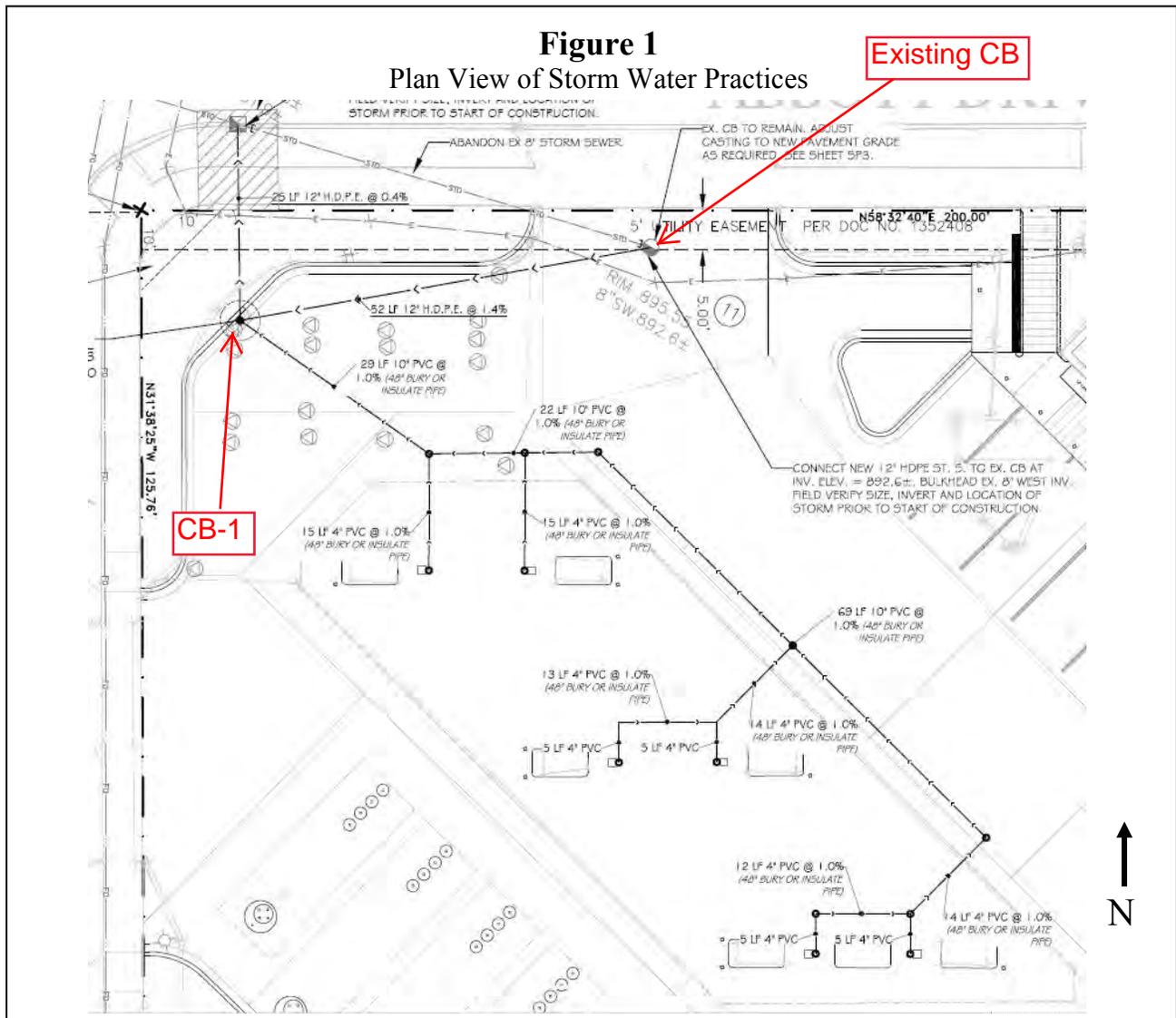
Exhibit B - Location Map

Storm Water Management Practices Covered by this Agreement

The storm water management practices covered by this Agreement are depicted in the reduced copy of a portion of the construction plans, as shown below. The practices include two catch basins (one existing & one new) associated storm sewer and connection to existing City storm sewer. All of the noted storm water management practices are located within the property as noted in Exhibit A. Detailed construction plans are included in the follow pages of Exhibit B.

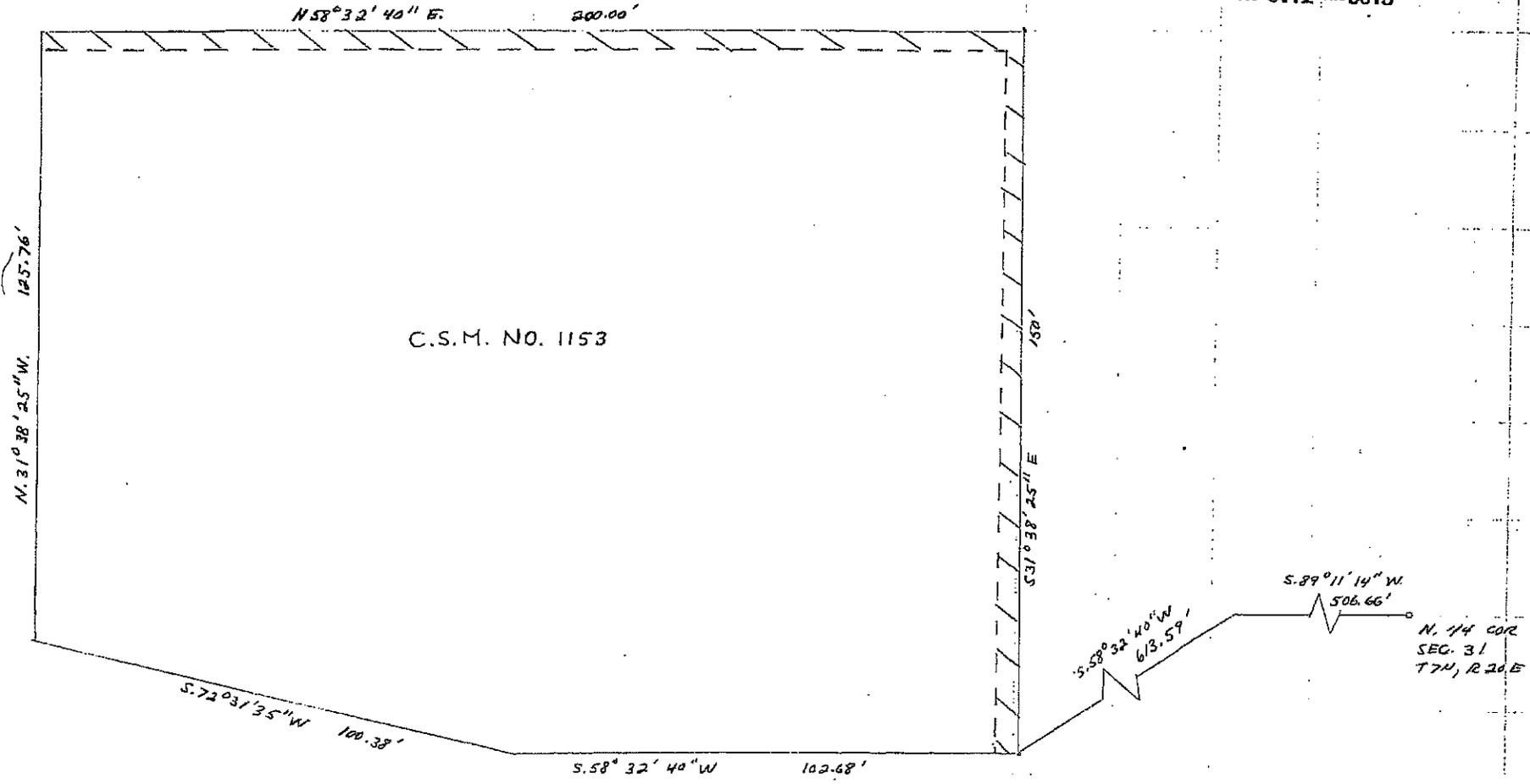
Project Identifier: **Kwik Trip Store 968**

Storm water Practices: **Storm Sewer, Catch Basins (2)**

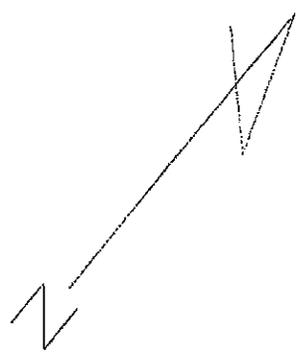


* Boundary Description for Utility Easement recorded June 18, 1986, Reel 771, Image 74 Document 1352408:

Strips of land 5 feet in width being a part of the grantor's premises in the Northwest 1/4 of section 31, Township 7 North, Range 20 East, in the City of Waukesha, Waukesha County, Wisconsin. Said Premises being more particularly described as Certified Survey Map No. 1153 as recorded in the office of the Register of Deeds for Waukesha County on January 14, 1970 in Volume 7 of Certified Survey Maps on pg. 312 as Document No. 756530



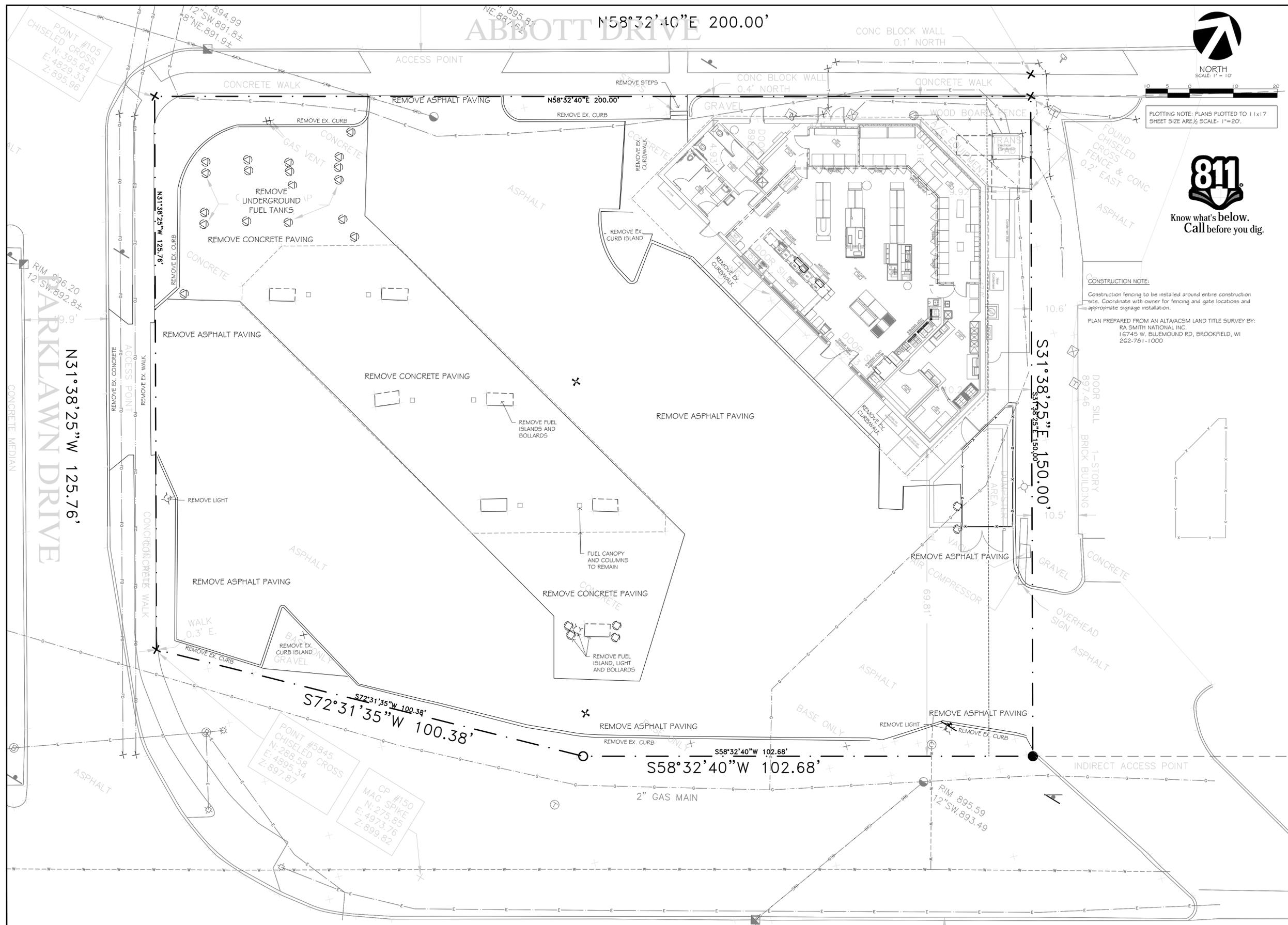
C.S.M. NO. 1153



KEY
 III 5' U.G. EASEMENT STRIP

EXHIBIT "A"

REVISIONS	WISCONSIN ELECTRIC POWER COMPANY	DRAWN BY <i>N. J. LSON</i>
	EASEMENT REQUIRED TO PROVIDE U.G. SERVICE TO P.O. STORE 2302 E. MORELAND BLVD C/O WAKESHA COUNTY WAKESHA	CHECKED BY <i>[Signature]</i>
		APPROVED BY <i>[Signature]</i>
		SCALE: NONE
		DATE 3/8/06
		ID0011A-9-66-2716/019



PLOTTING NOTE: PLANS PLOTTED TO 11x17 SHEET SIZE ARE 1/2 SCALE- 1"=20'.



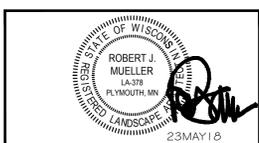
Know what's below. Call before you dig.

CONSTRUCTION NOTE:
Construction fencing to be installed around entire construction site. Coordinate with owner for fencing and gate locations and appropriate signage installation.
PLAN PREPARED FROM AN ALTA/JCSM LAND TITLE SURVEY BY: RA SMITH NATIONAL INC. 16745 W. BLUEMOUND RD., BROOKFIELD, WI 262-781-1000



KWIK TRIP, Inc.
P.O. BOX 2107
1626 OAK STREET
LACROSSE, WI 54602-2107
PH. (608) 781-8988
FAX (608) 781-8960

INSITES
SITE PLANNING LANDSCAPE ARCHITECTURE
3030 Harbor Lane North, STE 131
Plymouth, Minnesota 55447
763.383.8400
fax 763.383.8440



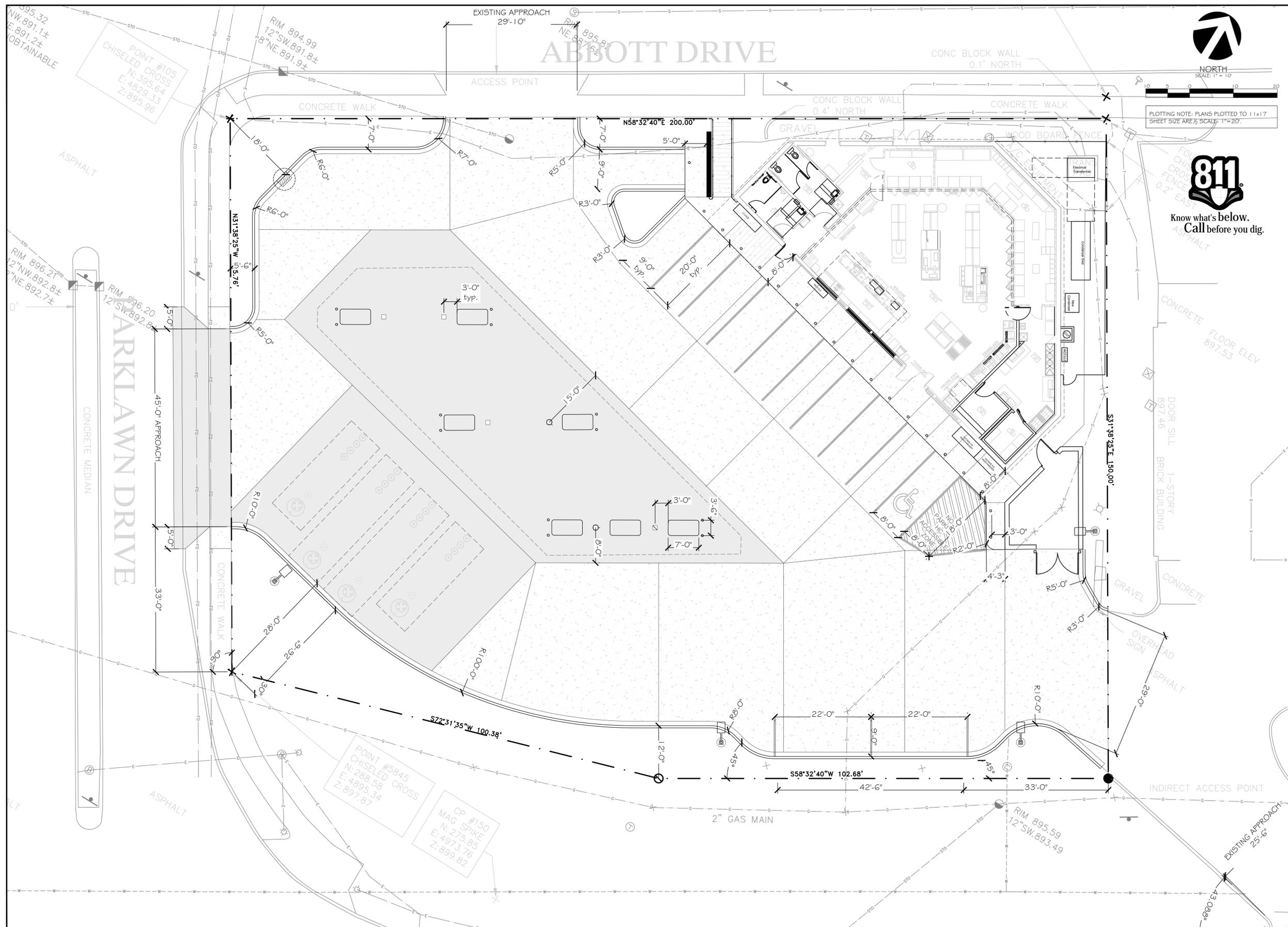
DEMO PLAN
896 STORCENENANON
2302 E MORELAND BLVD
WAUKESHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	06MAR18	CITY COMMENTS
-	07MAY18	APPROACH CHANGE
-	23MAY18	CONSTRUCTION

DRAWN BY: _____
SCALE: GRAPHIC
PROJ. NO.: 17968
DATE: 09JAN2018
SHEET: _____

DM1

REVISED 17-052 RMC/N



NORTH
SCALE: 1" = 10'
PLOTING NOTE: PLANS PLOTTED TO 11x17
SHEET SIZE ARE 1/2" SCALE, 1" = 20'.



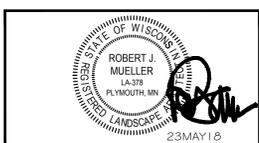
Know what's below.
Call before you dig.

**Kwik
TRIP**

**Kwik
STAR**

KWIK TRIP, Inc.
P.O. BOX 2107
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LACROSSE, WI 54602-2107
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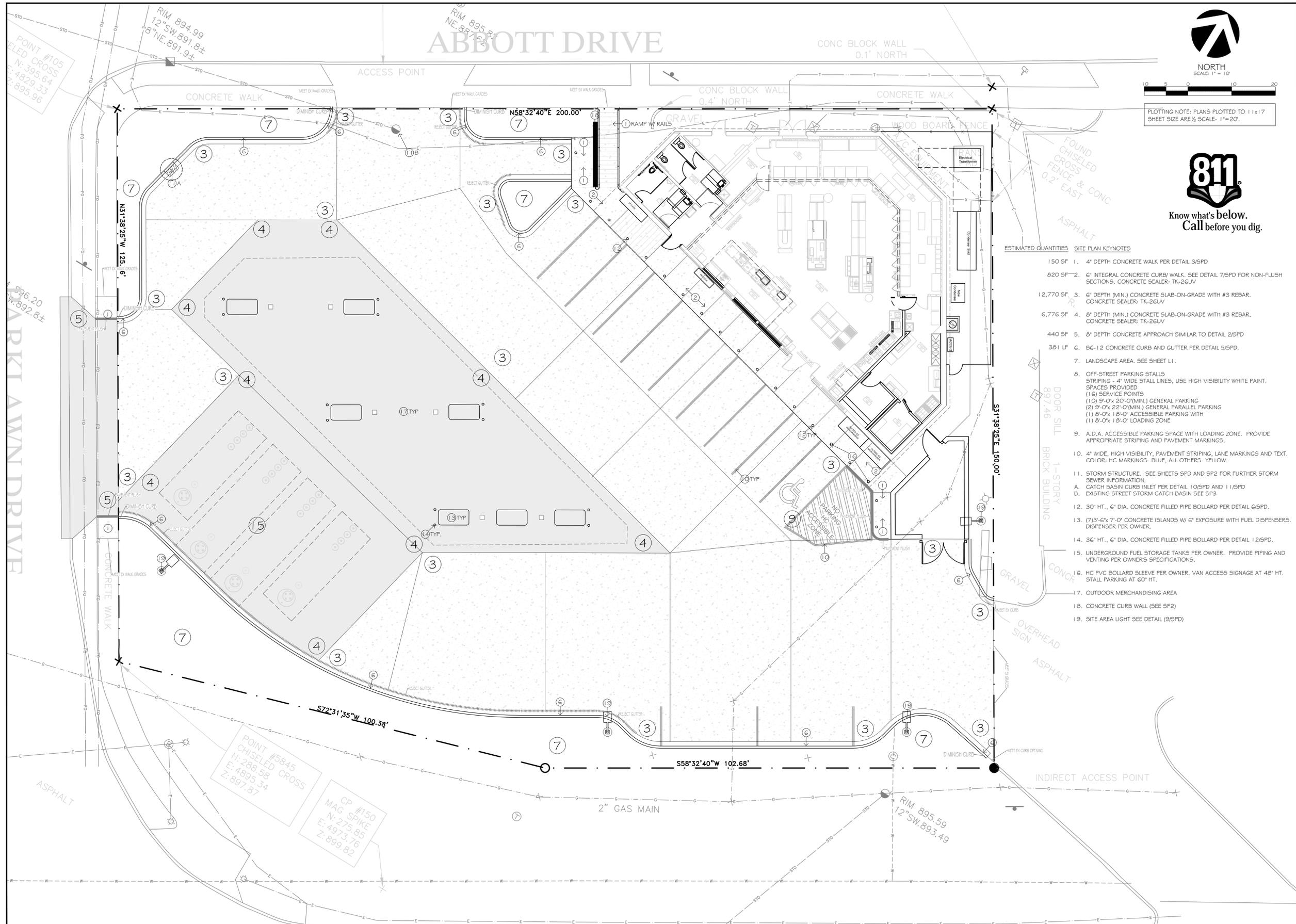


SITE DIMENSION PLAN
CONVENIENCE STORE 968
2302 E MORELAND BLVD
WAUKESHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	06MAR18	CITY COMMENTS
-	07MAY18	APPROACH CHANGE
-	23MAY18	CONSTRUCTION

DRAWN BY: _____
SCALE: GRAPHIC
PROJ. NO.: 17968
DATE: 09JAN2018
SHEET: **SP1**

REVISED 17-09-2018 R.M.C.N.



PLOTING NOTE: PLANS PLOTTED TO 11x17 SHEET SIZE ARE 1/2 SCALE - 1"=20'



Know what's below.
Call before you dig.

- | ESTIMATED QUANTITIES | SITE PLAN KEYNOTES |
|----------------------|--|
| 150 SF | 1. 4" DEPTH CONCRETE WALK PER DETAIL 3/SPD |
| 820 SF | 2. 6" INTEGRAL CONCRETE CURB/WALK. SEE DETAIL 7/SPD FOR NON-FLUSH SECTIONS. CONCRETE SEALER: TK-26UV |
| 12,770 SF | 3. 6" DEPTH (MIN.) CONCRETE SLAB-ON-GRADE WITH #3 REBAR. CONCRETE SEALER: TK-26UV |
| 6,776 SF | 4. 8" DEPTH (MIN.) CONCRETE SLAB-ON-GRADE WITH #3 REBAR. CONCRETE SEALER: TK-26UV |
| 440 SF | 5. 8" DEPTH CONCRETE APPROACH SIMILAR TO DETAIL 2/SPD |
| 381 LF | 6. B6-12 CONCRETE CURB AND GUTTER PER DETAIL 5/SPD. |
| | 7. LANDSCAPE AREA. SEE SHEET L1. |
| | 8. OFF-STREET PARKING STALLS STRIPING - 4" WIDE STALL LINES, USE HIGH VISIBILITY WHITE PAINT. SPACES PROVIDED:
(16) SERVICE POINTS
(10) 9'-0" x 20'-0" (MIN.) GENERAL PARKING
(2) 9'-0" x 22'-0" (MIN.) GENERAL PARALLEL PARKING
(1) 8'-0" x 18'-0" ACCESSIBLE PARKING WITH
(1) 8'-0" x 18'-0" LOADING ZONE |
| | 9. A.D.A. ACCESSIBLE PARKING SPACE WITH LOADING ZONE. PROVIDE APPROPRIATE STRIPING AND PAVEMENT MARKINGS. |
| | 10. 4" WIDE, HIGH VISIBILITY, PAVEMENT STRIPING, LANE MARKINGS AND TEXT. COLOR: HC MARKINGS- BLUE, ALL OTHERS- YELLOW. |
| | 11. STORM STRUCTURE. SEE SHEETS SPD AND SP2 FOR FURTHER STORM SEWER INFORMATION.
A. CATCH BASIN CURB INLET PER DETAIL 10/SPD AND 11/SPD
B. EXISTING STREET STORM CATCH BASIN SEE SP3 |
| | 12. 30" HT., 6" DIA. CONCRETE FILLED PIPE BOLLARD PER DETAIL 6/SPD. |
| | 13. (7) 3'-6" x 7'-0" CONCRETE ISLANDS W/ 6" EXPOSURE WITH FUEL DISPENSERS. DISPENSER PER OWNER. |
| | 14. 36" HT., 6" DIA. CONCRETE FILLED PIPE BOLLARD PER DETAIL 12/SPD. |
| | 15. UNDERGROUND FUEL STORAGE TANKS PER OWNER. PROVIDE PIPING AND VENTING PER OWNER'S SPECIFICATIONS. |
| | 16. HC PVC BOLLARD SLEEVE PER OWNER. VAN ACCESS SIGNAGE AT 48" HT. STALL PARKING AT 60" HT. |
| | 17. OUTDOOR MERCHANDISING AREA |
| | 18. CONCRETE CURB WALL (SEE SP2) |
| | 19. SITE AREA LIGHT SEE DETAIL (9/SPD) |

Kwik Trip

Kwik Star

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P.O. BOX 2107
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LACROSSE, WI 54602-2107
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763.383.8400
fax 763.383.8440

STATE OF WISCONSIN
ROBERT J. MUELLER
LANDSCAPE ARCHITECT
23MAY18

SITE KEYNOTE PLAN
CONVENIENCE STORE 968
2302 E MORELAND BLVD
WAUKESHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	06MAR18	CITY COMMENTS
-	07MAY18	APPROACH CHANGE
-	23MAY18	CONSTRUCTION

DRAWN BY: _____
SCALE: GRAPHIC
PROJ. NO.: 17968
DATE: 09JAN2018
SHEET: **SP1.1**

REVISED 17-052 R.M.C.N.




 NORTH
 SCALE: 1" = 20'

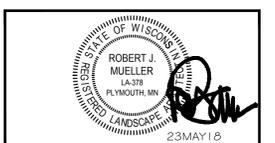
 20 10 0 20 40
 PLOTTING NOTE: PLANS PLOTTED TO 11x17
 SHEET SIZE ARE 1/2 SCALE - 1"=40'.


 Know what's below.
 Call before you dig.
 FOUND 1" IRON PIPE



KWIK TRIP, Inc.
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 FAX (608) 781-8960

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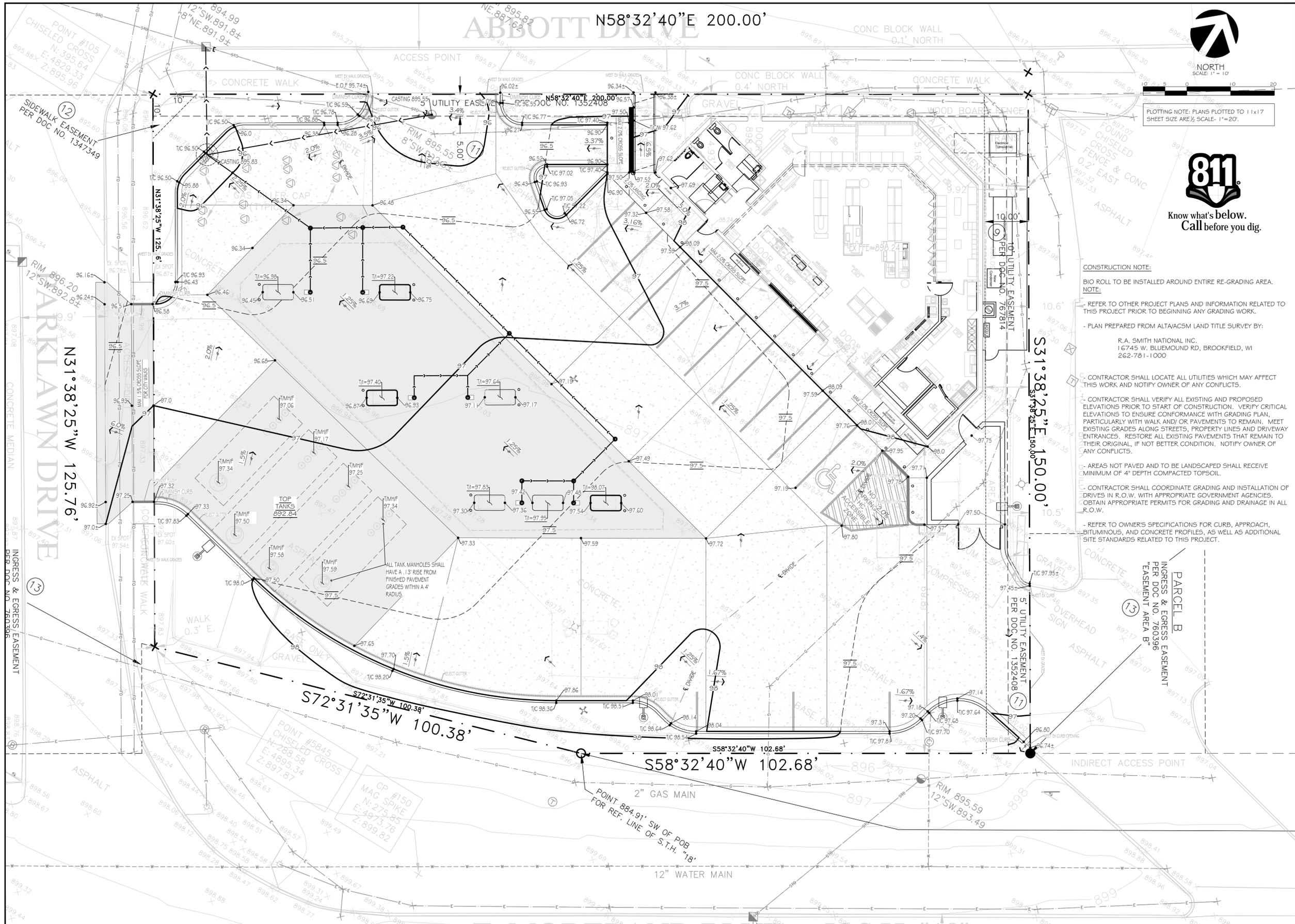


SITE CIRCULATION PLAN
CONVENIENCE STORE 968
2302 E MORELAND BLVD
WAUKESHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	06MAR18	CITY COMMENTS
-	07MAY18	APPROACH CHANGE
-	23MAY18	CONSTRUCTION

DRAWN BY _____
 SCALE _____ GRAPHIC
 PROJ. NO. 17968
 DATE 09JAN2018
 SHEET **SP0**

REVISED 17-09-2018 R.M.C.N.



PLOTTING NOTE: PLANS PLOTTED TO 11x17 SHEET SIZE ARE 1/2 SCALE - 1\"/>

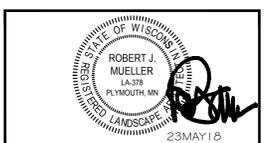


Know what's below.
Call before you dig.

- CONSTRUCTION NOTE:**
- BIO ROLL TO BE INSTALLED AROUND ENTIRE RE-GRADING AREA.
 - NOTE:
 - REFER TO OTHER PROJECT PLANS AND INFORMATION RELATED TO THIS PROJECT PRIOR TO BEGINNING ANY GRADING WORK.
 - PLAN PREPARED FROM ALTA/ACSM LAND TITLE SURVEY BY: R.A. SMITH NATIONAL INC. 16745 W. BLUEMOUND RD, BROOKFIELD, WI 262-781-1000
 - CONTRACTOR SHALL LOCATE ALL UTILITIES WHICH MAY AFFECT THIS WORK AND NOTIFY OWNER OF ANY CONFLICTS.
 - CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED ELEVATIONS PRIOR TO START OF CONSTRUCTION. VERIFY CRITICAL ELEVATIONS TO ENSURE CONFORMANCE WITH GRADING PLAN, PARTICULARLY WITH WALK AND/OR PAVEMENTS TO REMAIN. MEET EXISTING GRADES ALONG STREETS, PROPERTY LINES AND DRIVEWAY ENTRANCES. RESTORE ALL EXISTING PAVEMENTS THAT REMAIN TO THEIR ORIGINAL, IF NOT BETTER CONDITION. NOTIFY OWNER OF ANY CONFLICTS.
 - AREAS NOT PAVED AND TO BE LANDSCAPED SHALL RECEIVE MINIMUM OF 4" DEPTH COMPACTED TOPSOIL.
 - CONTRACTOR SHALL COORDINATE GRADING AND INSTALLATION OF DRIVES IN R.O.W. WITH APPROPRIATE GOVERNMENT AGENCIES. OBTAIN APPROPRIATE PERMITS FOR GRADING AND DRAINAGE IN ALL R.O.W.
 - REFER TO OWNER'S SPECIFICATIONS FOR CURB, APPROACH, BITUMINOUS, AND CONCRETE PROFILES, AS WELL AS ADDITIONAL SITE STANDARDS RELATED TO THIS PROJECT.



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PH. (608) 781-8988
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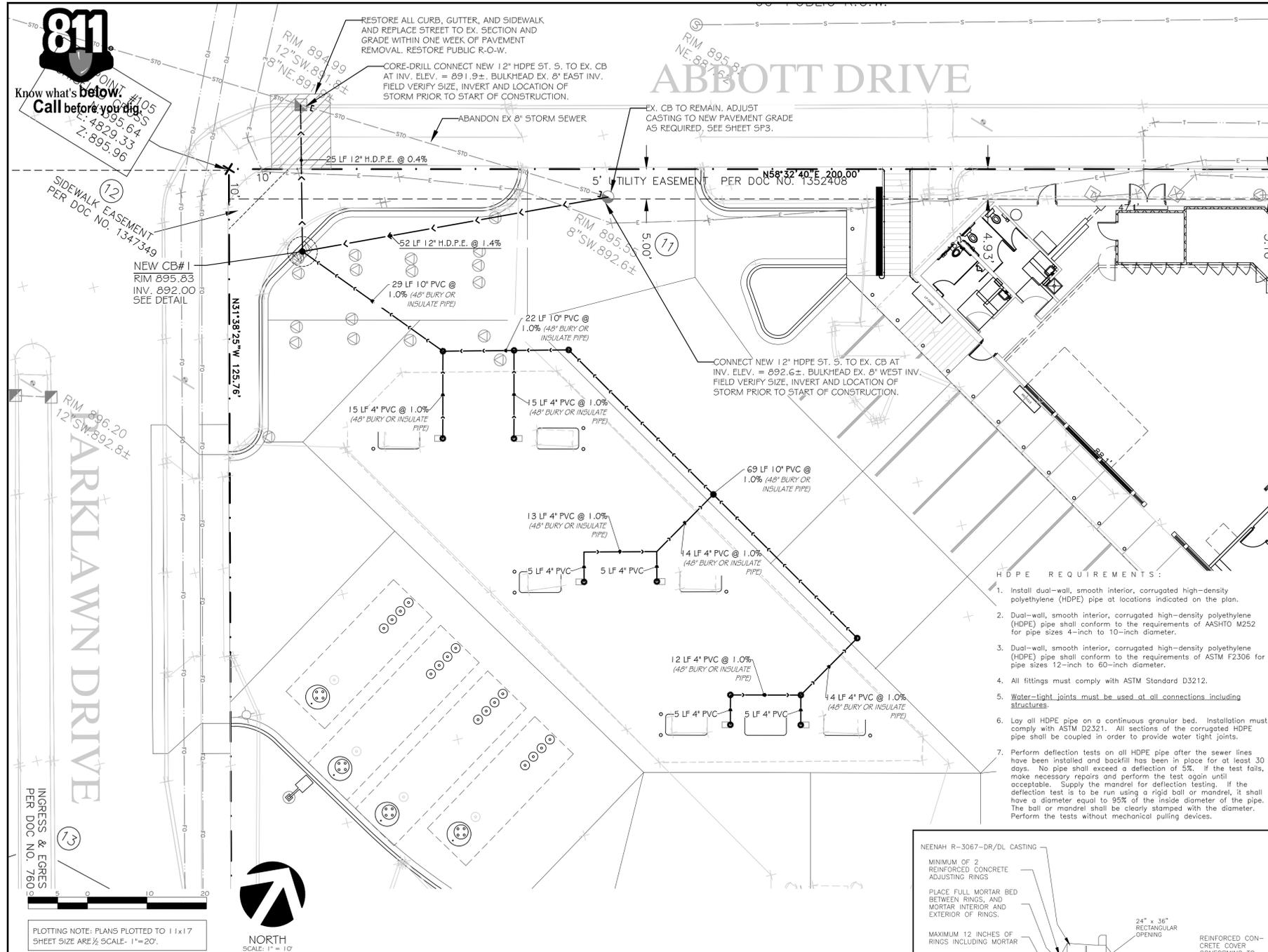


GRADE PLAN
896 STORSCENENANON
2302 E MORELAND BLVD
WAUKESHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	06MAR18	CITY COMMENTS
-	07MAY18	APPROACH CHANGE
-	23MAY18	CONSTRUCTION

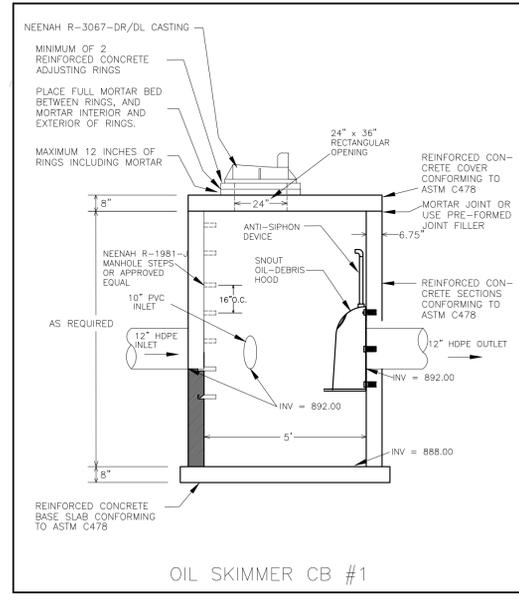
DRAWN BY: _____
SCALE: GRAPHIC
PROJ. NO.: 17968
DATE: 09JAN2018
SHEET: **SP2**

REVISED 17-052 R.M.C.N.

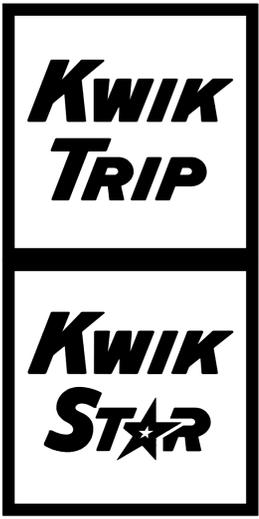


- GENERAL:**
1. Existing boundary, location, topographic, and utility information shown on this plan is from a field survey by R.A. Smith National, Inc. dated 08/10/17. The Engineer is not responsible for inaccuracies related to the survey information.
 2. Perform all construction work in accordance with State and Local requirements.
 3. Comply with all applicable local, state, and federal safety regulations. Comply with the work safety practices specified by the Occupational Safety and Health Administration (OSHA). OSHA prohibits entry into "confined spaces," such as manholes and inlets (see 29 CFR Section 1910.146), without undertaking certain specific practices and procedures. Perform excavations in accordance with the requirements of O.S.H.A. 29 CFR, Part 1926, Subpart P, Excavations. Sloping or benching for excavations greater than 20 feet deep must be approved by a registered professional engineer (www.osha.gov).
 4. Safety is solely the responsibility of the Contractor, who is also solely responsible for the construction means, methods, techniques, sequences or procedures, and for safety precautions and programs in connection with the Work.
 5. The Engineer shall not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work. The Engineer's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or procedures.
 6. Examine all local conditions at the site, and assume responsibility as to the grades, contours, and the character of the earth, existing conditions, and other items that may be encountered during excavation work above or below the existing grades. Review the drawings, specifications, and geotechnical report covering this work and become familiar with the anticipated site conditions.
 7. A licensed surveyor shall perform construction staking. The Contractor shall provide and be responsible for the staking. Verify all plan and dimensions prior to beginning construction. Contact Digger's Hotline at (414) 259-1181 in the Milwaukee Metro Area, or 1-800-242-8511 elsewhere in Wisconsin for exact locations of existing utilities at least 72 hours (not including weekends and holidays) before beginning any construction. Obtain ticket number and meet with representatives of the various utilities at the site. Provide the Owner with the ticket number information. Digger's Hotline is a free service that locates municipal and utility company lines, but does not locate private utility lines. Use an independent locator service or other means in order to obtain locations of private utility lines including, but not limited to, underground electric cables, telephone, TV, and lawn sprinkler lines.
 8. Provide temporary fences, barricades, coverings, and other protections in order to preserve existing items to remain, and to prevent injury or damage to person or property.
 9. Provide all traffic control required in order to construct the proposed improvements. Traffic control design and associated government approvals are the responsibility of the Contractor. Comply with local authorities, the latest version of the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), and the Wisconsin Manual on Uniform Traffic Control Devices Supplement to the MUTCD.
 10. Connect to existing storm sewer MH's by either sawcutting or corodrilling. Use saws or drills that provide water to the blade. Meet all City standards and specifications for the connection. Reconstruct inverts after installation. Use water stop gaskets in order to provide watertight seals when penetrating a structure wall with a pipe. Take measurements before beginning construction to ensure that service connections do not cut into maintenance access structure joints or pipe barrel joints.
 11. All existing existing sewer and watermain pipes that are to be abandoned shall either be removed, or completely filled with sand or lean mix grout.
 12. The Contractor is solely responsible for all utility locations. Contact utility companies for locations of all public and private utilities within the project area prior to beginning construction. Contact Digger's Hotline at (414) 259-1181 in the Milwaukee Metro Area, or 1-800-242-8511 elsewhere in Wisconsin for exact locations of existing utilities at least 72 hours (not including weekends and holidays) before beginning any construction. Obtain ticket number and meet with representatives of the various utilities at the site. Provide the Owner with the ticket number information. Digger's Hotline is a free service that locates municipal and utility company lines, but does not locate private utility lines. Use an independent locator service or other means in order to obtain locations of private utility lines including, but not limited to, underground electric cables, telephone, TV, and lawn sprinkler lines.
 13. Pothole to verify the positions of existing underground facilities at a sufficient number of locations in order to assure that no conflict with the proposed work exists and that sufficient clearance is available.
 14. Where existing gas, electric, cable, or telephone utilities conflict with the Work, coordinate the abandonment, relocation, offset, or support of the existing utilities with the appropriate local utility companies. Coordinate new gas meter and gas line installation, electric meter and electric service installation, cable service, and telephone service installation with the local utility companies.
 15. Arrange for and secure suitable disposal areas off-site. Dispose of all excess soil, waste material, debris, and all materials not designated for salvage. Waste material and debris includes trees, stumps, pipe, concrete, asphaltic concrete, cans, or other waste material from the construction operations. Obtain the rights to any waste area for disposal of unsuitable or surplus material either shown or not shown on the plans. All work in disposing of such material shall be considered incidental to the work. All disposal must conform to applicable solid waste disposal permit regulations. Obtain all necessary permits at no cost to the OWNER.
 16. Straight line saw-cut existing bituminous or concrete surfacing at the perimeter of pavement removal areas. Use saws that provide water to the blade. Do not allow the slurry produced by this process to be tracked outside of the immediate work area or discharged into the sewer system. Tack and match all connections to existing bituminous pavement.
 17. Relocate overhead power, telephone, and cable lines as required. Seal and report any existing unused on-site wells and septic systems.
 18. All materials required for this work shall be new material conforming to the requirements for class, kind, grade, size, quality, and other details specified herein or as shown on the Plans. Do not use recycled or salvaged aggregate asphaltic pavement, crushed concrete, or scrap shingles. Unless otherwise indicated, the Contractor shall furnish all required materials.
 19. Reconstruct driveways and patch street to match existing pavement section and grade. Sod right-of-way. The work area shown is general and may need to be adjusted in the field.
 20. Restore the public right-of-way at temporary construction entrance locations. Replace any concrete curb and gutter, bituminous pavement, sidewalk, or vegetative cover damaged by the construction activity. Restore damaged turf with sod within the public right-of-way. The work area shown is general and may need to be adjusted in the field.
 21. Provide positive drainage away from buildings at all times. Provide and maintain temporary drainage throughout construction until the permanent drainage system and structures are in place and operational. Install temporary ditches, piping, pumps, or other means as necessary in order to insure proper drainage at all times. Provide low points at building pads or roadways with positive outfalls.
 22. Protect sub grades from damage by surface water runoff.
 23. Full design strength is not available in bituminous pavement areas until the final lift of asphalt is compacted into place. Protect pavement areas from overloading by delivery trucks, construction equipment, and other vehicles.
 24. When sawing or drilling concrete or masonry, use saws that provide water to the blade. Do not allow the slurry produced by this process to be tracked outside of the immediate work area or discharged into the sewer system.
 25. Adjust all curb stops, valve boxes, maintenance hole castings, catchbasin castings, cleanout covers, and similar items to finished grade.
 26. Install all pipe with the ASTM identification numbers on the top for inspection. Commence pipe laying at the lowest point in the proposed sewer line. Lay the pipe with the bell end or receiving groove end of the pipe pointing upgrade. When connecting to an existing pipe, uncover the existing pipe in order to allow any adjustments in the proposed line and grade before laying any pipe. Do not lay pipes in water or when the trench conditions are unsuitable for such work.
 27. Obtain and pay for all permits, tests, inspections, etc. required by agencies that have jurisdiction over the project including the NPDES permit from the State. The Contractor is responsible for all bonds, letters of credit, or cash sureties related to the work. Execute and inspect work in accordance with all local and state codes, rules, ordinances, or regulations pertaining to the particular type of work involved.
 28. Obtain permits from the City for work in the public right-of-way.
 29. Refer to the geotechnical report by the Soils Engineer for dewatering requirements.
 30. The minimum depth of cover for building and canopy roof drain leaders without insulation is 5 feet. Insulate roof drain leaders at locations where the depth of cover is less than 5 feet. Provide a minimum insulation thickness of 2 inches. The insulation must be at least 4 feet wide and centered on the pipe. Install the insulation boards 6 inches above the tops of the pipes on mechanically compacted and leveled pipe bedding material. Use high density, closed cell, rigid board material equivalent to DOW Styrofoam HI-40 plastic foam insulation.
 31. Insulate utility lines at locations indicated on the plans. Provide a minimum insulation thickness of 4 inches. The insulation must be at least 4 feet wide and centered on the pipe. Install the insulation boards 6 inches above the tops of the pipes on mechanically compacted and leveled pipe bedding material. Use high density, closed cell, rigid board material equivalent to DOW Styrofoam Highload 40 Polystyrene insulation. Individual insulation board dimensions typically measure 4' wide by 8' long by 2" thick.
 32. Construct sanitary sewer, watermain, and storm sewer utilities in accordance with the Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, or the latest revised edition.
 33. Tracer Wire: Locating requirements - a means to locate buried underground exterior non metallic sewers/mainst must be provided with tracer wire or other methods in order to be located in accord with the provisions of these code sections as per 182.0715(2r) of the statutes.
 34. See architectural for building waterproofing and foundation drainage.
 35. Secure and deliver to the Owner as-built information showing locations, top, and invert elevations of maintenance holes, catchbasins, cleanouts, inlet and outlet pipes, valves, hydrants, and related structures. Location ties shall be to permanent landmarks or buildings.
 36. Place #3 rebar at 3' on center in all 6" thick concrete pavement locations. Place #4 rebar at 3' on center in all 8" thick concrete pavement locations.
 37. Place #4 x 2'-0" tie bar at 3' on center in all concrete curb and gutter.

- STORM DRAINAGE:**
1. Unless otherwise indicated, use reinforced, precast, concrete maintenance holes and catchbasins conforming to ASTM C478, furnished with water stop rubber gaskets and precast bases. Joints for all precast maintenance hole sections shall have confined, rubber "O"-ring gaskets in accordance with ASTM C923. The inside barrel diameter shall not be less than 48 inches.
 2. Install catchbasin castings with specified top elevation at the front rim.
 3. All joints and connections to catchbasins or manholes shall be watertight. Joints between concrete structures and piping shall be made with mechanical joints (resilient rubber seal/boot and clamp) in conformance with ASTM C923, ASTM C654, or as otherwise permitted by the local authority. Cement mortar joints are not allowed unless otherwise permitted by the administrative authority.
 4. **PVC Pipe (Outside of the Building):** Use solid-core, SDR-35, ASTM D3034 Polyvinyl Chloride (PVC) Pipe for designated PVC storm sewer services 4 to 15-inches in diameter outside of the building. Use solid-core, SDR-35, ASTM F679 Polyvinyl Chloride (PVC) pipe for designated PVC storm sewer services 18 to 27-inches in diameter outside of the building. Joints for all storm sewer shall have push-on joints with elastomeric gaskets. Use of solvent cement joints is allowed for building services. Solvent cement joints in PVC pipe must include use of a primer which is of contrasting color to the pipe and cement in accordance with Uniform Plumbing Code (UPC), part 605.13.2. Pipe with solvent cement joints shall be joined with PVC cement conforming to ASTM D2564. Lay all PVC pipe on a continuous granular bed. Installation must comply with ASTM D2321.
 5. **Cleanouts:** Install cleanouts on all roof drains in accordance with S.P.S. 382.35 (3)(C)(1.). The distance between cleanouts in horizontal piping shall not exceed 100 feet for pipes 10-inches and under in size. Cleanouts shall be of the same nominal size as the pipes they serve. Install a meter box frame and solid lid (Neenah R-1914-A, or approved equal) over all cleanouts.
 6. **RCP:** Reinforced concrete pipe (RCP) and fittings shall conform to ASTM C76, Design C, with circular reinforcing for the class of pipe specified. Use Class IV RCP for pipes 21" and larger. Use Class V RCP for pipes 18" and smaller. Joints shall be Bureau of Reclamation type R-4, with confined rubber "O"-ring gaskets in accordance with ASTM C361.



7. **Testing:** Test all portions of storm sewer that are within 10 feet of buildings, within 10 feet of buried water lines, within 50 feet of water wells, or that pass through soil or water identified as being contaminated in accordance with UPC part 1109.D. Test all flexible storm sewer lines for deflection after the sewer line has been installed and backfill has been in place for at least 30 days. No pipe shall exceed a deflection of 5%. If the test fails, make necessary repairs and retest.
8. **Drainage:** Perforated under-drains shall be slotted single wall corrugated HDPE. Install drain tile with high permeability circular knit polymer filament filter sock per ASTM D6707-01.
9. Use Neenah R-3067-DR/DR casting with curb box, or approved equal, on CB #1. Casting shall include the "NO DUMPING, DRAINS TO RIVER," environmental notice.
10. **Tracer Wire:** Locating requirements - a means to locate buried underground exterior non metallic sewers/mainst must be provided with tracer wire or other methods in order to be located in accord with the provisions of these code sections as per 182.0715(2r) of the statutes. Install detectable underground marking tape directly above all pvc, polyethylene, and other nonconductive underground utilities at a depth of 457 mm (18 inches) below finished grade, unless otherwise indicated. Bring the tape to the surface at various locations in order to provide connection points for locating underground utilities. Install green Rhino Tracer Flex Test Stations, or approved equal, with black caps at each surface location.
11. The minimum depth of cover for building and canopy roof drain leaders without insulation is 5 feet. Insulate roof drain leaders at locations where the depth of cover is less than 5 feet. Provide a minimum insulation thickness of 2 inches. The insulation must be at least 4 feet wide and centered on the pipe. Install the insulation boards 6 inches above the tops of the pipes on mechanically compacted and leveled pipe bedding material. Use high density, closed cell, rigid board material equivalent to DOW Styrofoam HI-40 plastic foam insulation.
12. Install all pipe with the ASTM identification numbers on the top for inspection. Commence pipe laying at the lowest point in the proposed sewer line. Lay the pipe with the bell end or receiving groove end of the pipe pointing upgrade. When connecting to an existing pipe, uncover the existing pipe in order to allow any adjustments in the proposed line and grade before laying any pipe. Do not lay pipes in water or when the trench conditions are unsuitable for such work.
13. Clean sediment and debris from sewers, sumps and stormwater basins prior to final owner acceptance.
14. Televiser all existing lines prior to connection.



KWIK TRIP, Inc.
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STORM SEWER PLAN

CONVENIENCE STORE 968

2302 E MORELAND BLVD WAUKESHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	06MAY18	CITY COMMENTS
-	07MAY18	APPROACH CHANGE
-	23MAY18	CONSTRUCTION

DRAWN BY: _____

SCALE: _____ GRAPHIC

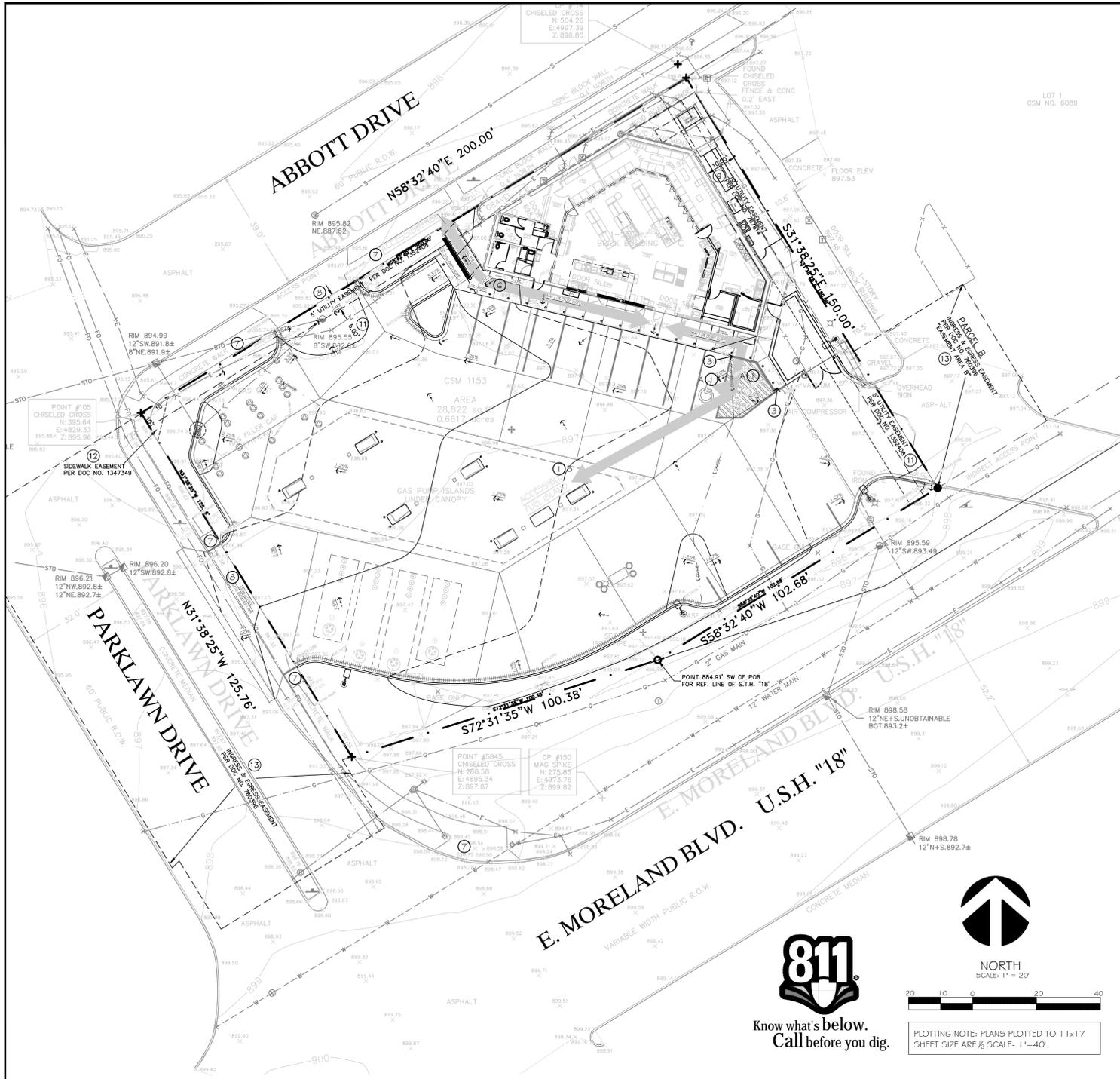
PROJ. NO.: 17968

DATE: 09JAN2018

SHEET: _____

SP3

REVISED 17-05-2018 P.M. C.A.K.



PLAN KEYNOTES

1. ACCESSIBLE STALLS
 - A. STRIPING - 4" WIDE STALL LINES, USE HIGH VISIBILITY BLUE PAINT (UNLESS ALTERNATE COLOR SPECIFIED BY LOCAL OR STATE CODES). SPACES PROVIDED
 - (1) 8'-0" x 20'-0" ACCESSIBLE PARKING WITH
 - (1) 8'-0" x 18'-0" LOADING ZONE
 - B. ACCESSIBLE FUELING POINT AND DISPENSER AND VALET. VALET AND KEY PAD ON PUMP SHALL CONFORM TO ADA REACH DIMENSIONS AS SHOWN IN DETAIL. SEE NOTES FOR CONVENIENCE STORE ACCESSIBILITY.
- X TRUNCATED-DOME INSERT. COLOR: BURGUNDY. DIMENSIONS OF INSERT AS DETERMINED BY PATH WIDTH TO ENSURE COMPLETE DETECTION ZONE IN LINE-OF-TRAVEL.
3. PAVEMENTS FLUSH FOR ACCESSIBILITY.
- X PILING TABLE W/ ACCESSIBLE PLACEMENT PROVIDE OWNER. PROVIDE TRASH CONTAINER.

- X ACCESSIBLE VACUUM + AIR INSTALLED WITH APPROPRIATE HEIGHTS. PARKING AREA SHALL MEET A.D.A. DIMENSIONS FOR ACCESS AND SURFACE FOR WHEEL CHAIR ACCESS SHALL NOT EXCEED 1:48 SLOPE IN ALL DIRECTIONS. SEE NOTES FOR CONVENIENCE STORE ACCESSIBILITY.
6. ACCESSIBLE ROUTE TO STORE
7. CITY SIDEWALK
8. ACCESS THRU APPROACH MAX. 2% CROSS SLOPE (1:48)
- X CURB RAMP - RAMP SLOPE MAX 1:12 SIDE FLARE SLOPE MAX 1:10

NOTES FOR CONVENIENCE STORE ACCESSIBILITY

AT LEAST 1 MFD (MULTI PRODUCT DISPENSER) COVERING ALL GRADES OF FUEL MUST BE ACCESSIBLE IN A 30'x48" CLEAR LEVEL FLOOR AREA (CLF).

ALL PUMP CONTROLS SHALL BE < 48" (20" I.O.) STANDARD). WINDOW WASHER, PAPER TOWEL DISPENSER, LITERATURE, FIRE EXTINGUISHER, EMERGENCY FUEL STOPS, ETC. BE ACCESSIBLE 30'x48" CLF SPACE AND WITHIN A FORWARD OR SIDE APPROACH REACH RANGE.

PROVIDE IS (INDUSTRY STANDARD ARCHITECTURE) AT EACH ACCESSIBLE FUEL POSITION ON FACE OF PUMP.

PROVIDE AT EACH ACCESSIBLE FUELING POSITION VISIBLE TO APPROACHING VEHICLES.

PROVIDE A SIGN AT EACH ACCESSIBLE FUELING POSITION WITH STORE TELEPHONE NUMBER, ADVISING AVAILABLE FUELING ASSISTANCE.

ANY PAY FUNCTION- I.e. AIR/VACUUM etc. ARE REQUIRED TO HAVE AN ACCESSIBLE ROUTE TO STORE ENTRANCE. CONTROLS SHALL BE ACCESSIBLE 30'x48" CLF SPACE AND WITHIN A FORWARD OR SIDE APPROACH REACH RANGE.



NORTH
SCALE: 1" = 20'

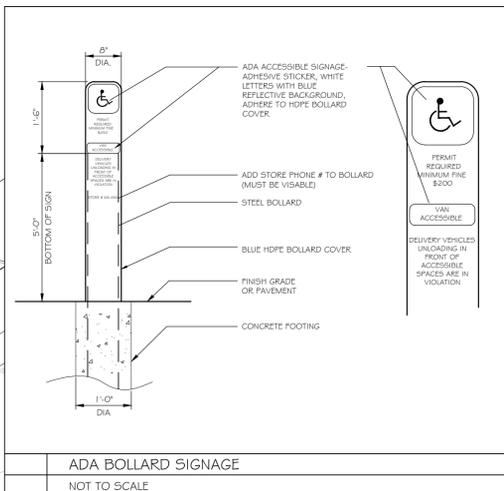
PLOTTING NOTE: PLANS PLOTTED TO 11x17 SHEET SIZE ARE 1/2 SCALE. 1"=40'.

NOTES:

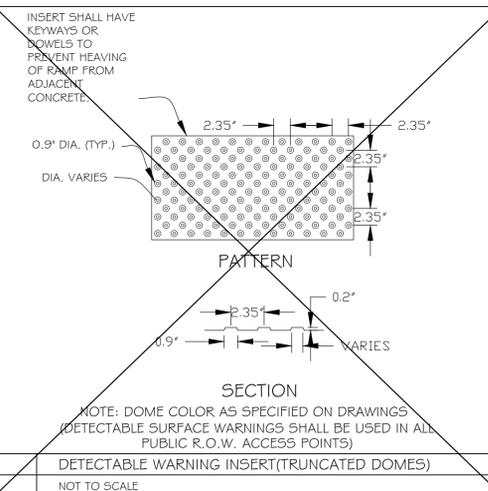
- REFER TO THE DOCUMENT FROM THE DEPARTMENT OF JUSTICE ON '2010 ADA STANDARDS FOR ACCESSIBLE DESIGN'. CONTRACTOR SHALL REFERENCE CURRENT A.D.A. GUIDELINES AND LOCAL REGULATIONS FOR SITE ACCESSIBILITY. IN ALL CASES THE MINIMUM REQUIREMENTS SHALL BE PROVIDED ON SITE TO ENSURE COMPLIANCE TO ALL REGULATIONS.
- KWIK TRIP STANDARD ENTRANCE HAS AUTOMATIC DOOR OPENER SYSTEM DESIGNED TO COMPLY WITH ALL ACCESS CODES AND LAWS. ENTRANCE DOORS FOR ACCESSIBLE ROUTES WILL HAVE A MINIMUM CLEAR OPENING OF 32"
- STORE FRONTS WILL PROVIDE FLUSH PAVEMENTS ALONG ACCESSIBLE ROUTES WITH PROTECTIVE SECURITY BOLLARDS INDICATED AND SPACED BETWEEN PARKING SURFACES AND BUILDING WALK PER PLAN.
- NO OBJECTS OR DISPLAYS SHOULD PROTRUDE INTO THE MINIMUM CLEAR SPACE OF THE ACCESSIBLE ROUTES TO THE STORE ENTRANCE. THIS WILL INCLUDE SEASONAL DISPLAY VENDING AREAS AS WELL AS OTHER OUTDOOR

STORAGE UNITS FOR PROPANE AND ICE, ETC.

- PER A.D.A. GUIDELINES- CLEAR WIDTH OF ACCESSIBLE ROUTES SHALL BE 36" AND PERMITTED TO BE REDUCED TO 32" FOR A LENGTH OF 24".
- ACCESS ISLES SERVING WHEEL CHAIR LIFTS OR CHAIR ACCESS FROM VEHICLES ARE REQUIRED TO BE NEARLY LEVEL IN ALL DIRECTIONS TO PROVIDE SAFE TRANSFER OF WHEELCHAIRS TO AND FROM VEHICLES. THE EXCEPTION WOULD BE FOR DRAINAGE. MAXIMUM SLOPE FOR THE ACCESS ISLE IS 1:48. NO CURB RAMPS SHALL BE A PART OF THE ACCESS ISLE.
- IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY WITH THE DESIGNATION OF 1 "VAN ACCESSIBLE" IN EVERY 8 ACCESSIBLE SPACES ON SITE.



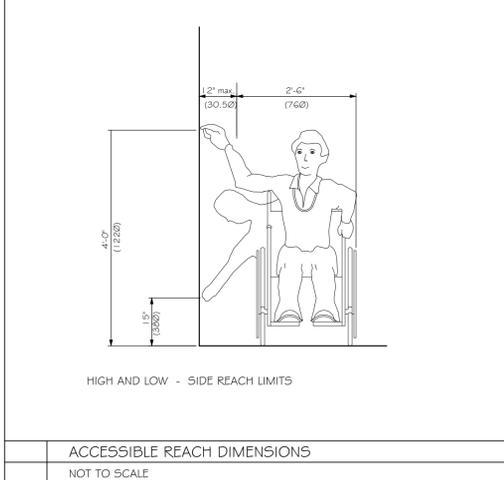
ADA BOLLARD SIGNAGE
NOT TO SCALE



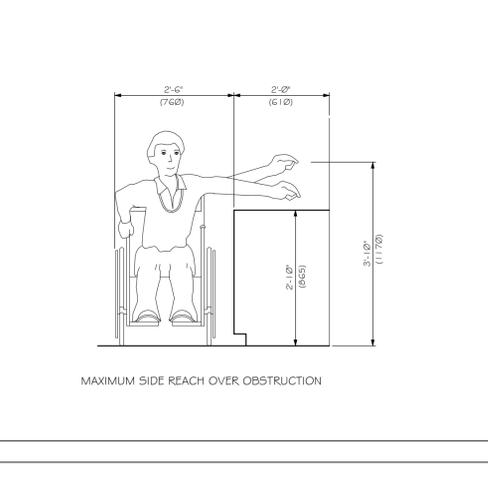
DETECTABLE WARNING INSERT (TRUNCATED DOMES)
NOT TO SCALE



VAN ACCESSIBLE PARKING PLAN
NOT TO SCALE



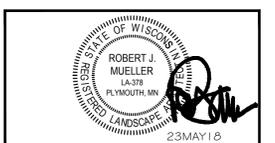
ACCESSIBLE REACH DIMENSIONS
NOT TO SCALE



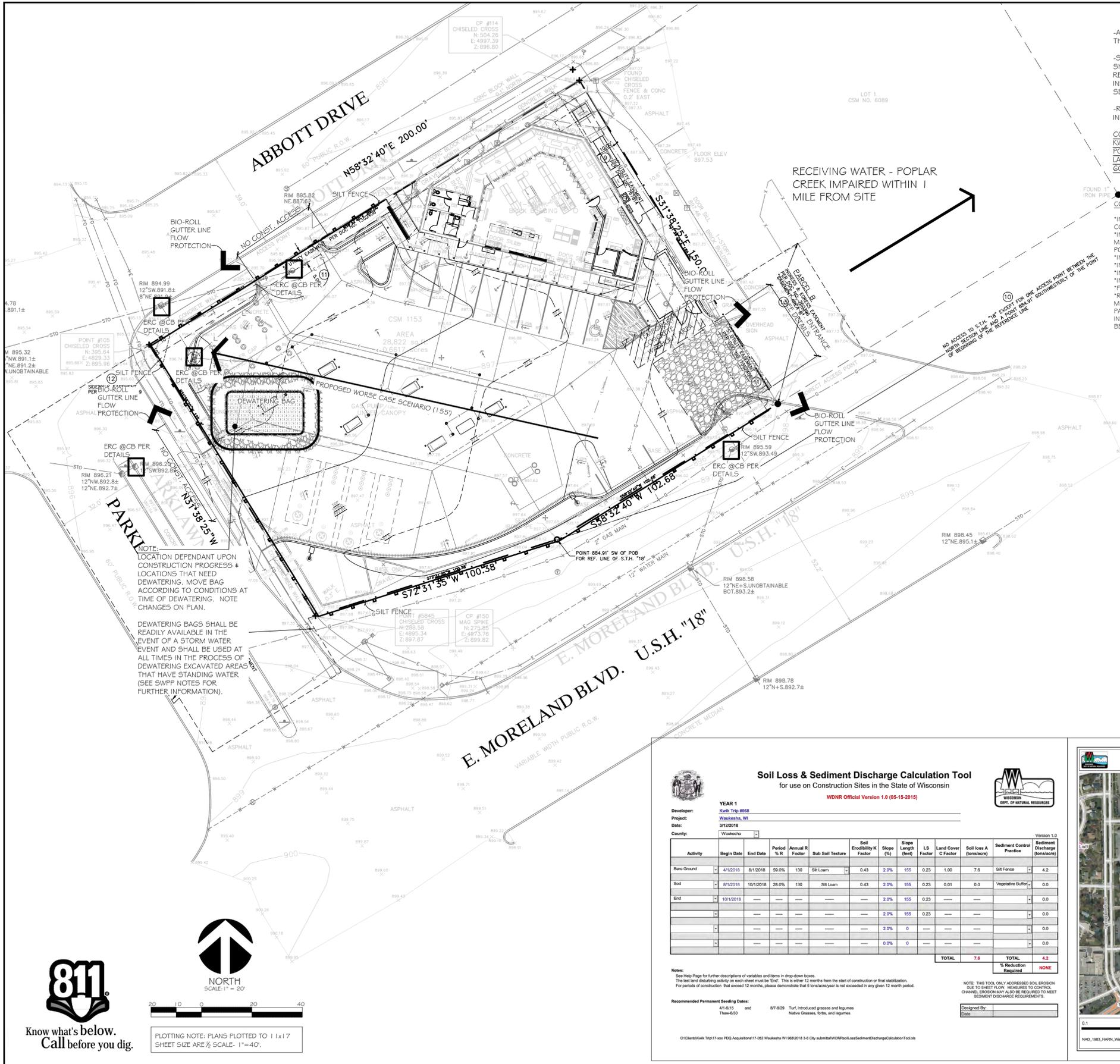
MAXIMUM SIDE REACH OVER OBSTRUCTION



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ACCESSIBILITY PLAN	CONVENIENCE STORE 968	2302 E MORELAND BLVD WAUKESHA, WISCONSIN	NO. DATE DESCRIPTION
			- 06MAR18 CITY COMMENTS - 07MAY18 APPROACH CHANGE - 23MAY18 CONSTRUCTION
DRAWN BY			GRAPHIC
SCALE			17968
PROJ. NO.			09JAN2018
DATE			SPA
SHEET			



-ALL SILT FENCE MUST BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE CITY PRIOR TO ANY SITE WORK.

-SITE EROSION CONTROL MEASURES MUST BE IN PLACE AT ALL TIMES. SHOULD DEVICES BE REMOVED FOR WORK ACCESS, THEY SHALL BE REINSTALLED AT THE END OF EACH WORK DAY UNTIL PAVEMENTS HAVE BEEN INSTALLED AND ALL LANDSCAPE AREAS HAVE BEEN MATCHED AND SODDED. SEEDED AREAS MUST EXHIBIT MINIMUM OF 70% SOIL COVERAGE.

-REFER TO THE SWPPP PLAN NOTES AND DETAIL SHEETS SWPPP2-4 FOR MORE INFORMATION.

CONTACT CHRIS NUTINI
 KWIK TRIP, INC
 PO BOX 2107
 LACROSSE, WI 54602
 608-793-5581

CONSTRUCTION SEQUENCE

- *INSTALL EROSION/SEDIMENT CONTROL MEASURES
- *INSTALL STORMWATER MANAGEMENT AND/OR POND/SEDIMENT BASINS
- *INSTALL STORM SEWER
- *INSTALL STRUCTURES
- *INSTALL PAVEMENTS
- *INSTALL LAWN/LANDSCAPE
- *FLUSH STORM SEWER
- *REMOVE EROSION CONTROL MEASURES ONLY AFTER ALL PAVEMENTS HAVE BEEN INSTALLED AND ALL SOILS HAVE BEEN STABILIZED

PROJECT DATA

PROJECT START DATE: JUNE 2018
 PROJECT COMPLETION DATE: OCTOBER 2018
 SITE AREA DATA: 28,822 SF
 TOTAL SITE AREA: APPROX. AREA OF LAND DISTURBANCE: 100%
 DOWN-STREAM TRIBUTARY: POPLAR CREEK THEN FLOWS INTO UPPER FOX RIVER WATERSHED

Estimated Preliminary Erosion Control Quantities
 (actual quantities subject to change)

Item	Quantity
Rock Construction Entrance	130 sq.yd.
Silt Sack	5(total structures to protect)
Erosion Control Blanket(basin)	--- sq.yd.
Rip Rap	--- cu. yd.
Silt Fence	432 l.f.
Rock Filtration dikes	--- l.f.
Bio Roll/erosion log	18 l.f.

Note: for maintenance purposes contractor shall all sufficient quantities for repair and replacement of erosion control devices throughout all phases of the projects construction.

NOTE- LOCATION DEPENDANT UPON CONSTRUCTION PROGRESS & LOCATIONS THAT NEED DEWATERING. MOVE BAG ACCORDING TO CONDITIONS AT TIME OF DEWATERING. NOTE CHANGES ON PLAN.

DEWATERING BAGS SHALL BE READILY AVAILABLE IN THE EVENT OF A STORM WATER EVENT AND SHALL BE USED AT ALL TIMES IN THE PROCESS OF DEWATERING EXCAVATED AREAS THAT HAVE STANDING WATER (SEE SWPPP NOTES FOR FURTHER INFORMATION).

Soil Loss & Sediment Discharge Calculation Tool
 for use on Construction Sites in the State of Wisconsin
 WDNR Official Version 1.0 (05-15-2015)

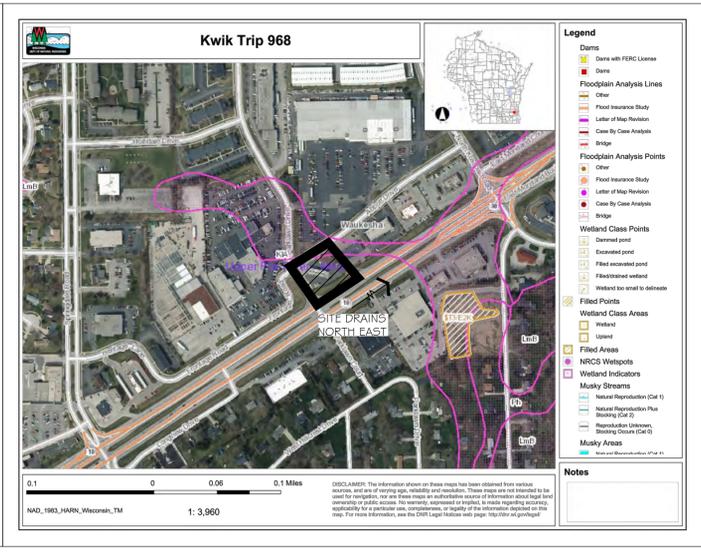
Developer: Kwik Trip #968
 Project: Waukesha, WI
 Date: 5/12/2018
 County: Waukesha

Activity	Begin Date	End Date	Period % R	Annual R Factor	Sub Soil Texture	Soil Erosibility K Factor	Slope (%)	Slope Length (feet)	LS Factor	Land Cover C Factor	Soil loss A (tons/acre)	Sediment Control Practice	Sediment Discharge (tons/acre)
Bare Ground	4/1/2018	8/1/2018	50.0%	130	Silt Loam	0.43	2.0%	155	0.23	1.00	7.6	Silt Fence	4.2
Sod	8/1/2018	10/1/2018	28.0%	130	Silt Loam	0.43	2.0%	155	0.23	0.01	0.0	Vegetative Buffer	0.0
End	10/1/2018						2.0%	155	0.23				0.0
							2.0%	155	0.23				0.0
							2.0%	0					0.0
							0.0%	0					0.0
TOTAL											7.6		4.2
												% Reduction Required	NONE

Notes:
 See Help Page for further descriptions of variables and items in dropdown boxes.
 The last land disturbing activity on each sheet must be 'END'. This is either 12 months from the start of construction or final stabilization.
 For periods of construction that exceed 12 months, please demonstrate that 5 tons/year is not exceeded in any given 12 month period.

Recommended Permanent Seeding Dates:
 4/15/15 and 8/7/20 Turf, introduced grasses and legumes
 5/15/15 and 8/7/20 Native Grasses, forbs, and legumes

Designed By: [Signature]



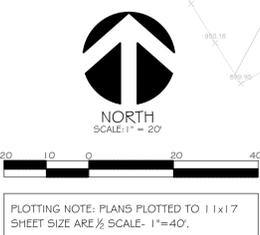
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EROSION CONTROL PLAN
CONVENIENCE STORE 968
2302 E MORELAND BLVD
WAUKESHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	06/MAR/18	CITY COMMENTS
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DRAWN BY: GRAPHIC
 SCALE: 1"=40'
 PROJ. NO.: 17968
 DATE: 09/JAN/2018
 SHEET: SWP1



REVISED 17-052 RW.C.M.

GENERAL STORMWATER POLLUTION PREVENTION :

Apply for and obtain all necessary permits for Construction Activity.

Stormwater Pollution Prevention Plan (SWPPP): The SWPPP includes this narrative, Plan Sheets SP3, SP3.1 and SP3.2, and the Stormwater Management Calculations. Keep a copy of the SWPPP, all changes to it, and inspections and maintenance records at the site during the construction process. During the construction process the SWPPP will have to be amended for all changes performed by the contractor. The owner shall be aware of the amendments prior to changes made to the SWPPP plan. All notes, photographs, recorded dates, sketches, references, and diagrams will have to be recorded and made available as part of the SWPPP permit.

Individual(s) preparing the SWPPP for the project, overseeing implementation of the SWPPP, revising and amending the SWPPP, and at least one individual on the project performing installation, inspection, maintenance, and repairs of BMP's must be trained. The training must be done by a local, state, federal agencies; professional organization; or other entities with expertise in erosion prevention, sediment control, or permanent Stormwater management.

Responsible Parties: The contractor must designate a person knowledgeable and experienced in the application of erosion prevention and sediment control BMP's who will oversee the implementation of the SWPPP, and the installation, inspection, and maintenance of the erosion prevention and sediment control BMP's before and during construction.

The owner is responsible for identifying who will have responsibility for the long term operation and maintenance of the permanent stormwater management systems.

Owner contact:

CONTACT CHRIS NUTINI
KWIK TRIP, INC
PO BOX 2107
LACROSSE, WI 54602
608-793-5551

SITE INVESTIGATION, INSTALLATION, IMPLEMENTATION :

1. Prior to any work, contractor shall visit the site, document existing conditions as necessary (photos, notes, etc) and note existing drainage patterns on and off site that are related to the project. These notes shall be part of the SWPPP.
2. Install all temporary erosion and sediment control measures including silt fence, rock construction entrance(s), erosion control silt fence, rock filter, silt sacks, rock filter/earth berms, and sedimentation basins. Protect all receiving waters, catch basins, ditches, inlets etc. in and around the site. All protective and preventative measures must be in place and inspected prior to beginning site cleaning, grading, or other land-disturbing activity.
3. Prior to beginning site cleaning and grading, protect all storm sewer inlets that receive runoff from disturbed areas. In order to prevent sediment from leaving the site and entering the downstream storm sewer system, seal all storm sewer inlets that are not needed for site drainage during construction. Protect all other storm sewer inlets by installing sediment control devices, such as silt sacks, or rock filtration logs/wiers. Straw bales or fabric under the grates are not acceptable forms of inlet protection. Protect new storm sewer inlets as they are completed. Maintain storm sewer inlet protection in place until all sources with potential for discharging to the inlets are stabilized.
4. Before beginning construction, install a TEMPORARY ROCK CONSTRUCTION ENTRANCE at each point where vehicles exit the construction site. When at all possible contractor shall designate only one access point for vehicles entering and exiting the site. The rock on the entrance will have to be inspected daily and replaced or rock supplemented by the contractor when over 50% of the voids in the rock are filled. A cleaning station should be made available to drivers and visibly signed as such. Provide shovels, brooms and/or hose with a wash out area so soils can be removed from vehicles on site.
5. Avoid entire removal of trees and surface vegetation all at once whenever possible as this limits the amount of site susceptible to erosion. Schedule construction zones and note this on the SWPPP plan in order to expose the smallest practical area of soil at any given time. Utilize vegetation removed by on site grinding and mulching and using this material to protect the soil from erosion.
6. Following initial soil disturbance or re-disturbance, complete permanent or temporary stabilization against erosion due to rain, wind, and running water within 7 calendar days on all disturbed or graded areas. This requirement does not apply to those areas that are currently being used for material storage on a daily basis or for those areas on which grading, site building, or other construction activities are actively underway. Provide temporary cover on all stacked topsoil piles, and other areas of stockpiled excavated material in order to prevent soil erosion and rapid runoff during the construction period. Stockpiles can be mulched, covered with poly or fabric, and or seeded during prolonged exposure. Prolonged periods of open, bare earth without grass cover will not be permitted. Stabilize all disturbed greenspace areas with a minimum of 4" topsoil immediately after final subgrade completion. Seed and mulch, or sod and protect these areas within 48 hours after completion of final grading work (weather permitting). Stabilize all disturbed areas to be paved using early application of gravel base. Stabilize the normal wetted perimeter of any temporary or permanent drainage ditch that conveys water from the construction site, or diverts water around the construction site, within 200 lineal feet from the property edge, or within 200 feet from the point of discharge to any surface water. Stabilize temporary or permanent drainage ditches within 24 hours of connecting to a surface water. Protect outfalls minimum of 200 feet down stream and to the side of the discharge point. Additional settling 'pots' achieved by filter logs or filtered stick bales staked in the channel will dissipate the water energy. Provide pipe outlets with temporary or permanent energy dissipation within 24 hours of connection to a surface water.
7. Receiving Waters - It is the contractors responsibility to inspect the site discharge point as well as downstream to the receiving body of water (pond, lake, stream, etc.) on a regular basis including after each storm event and document if any differences or changes in normal discharge and if material is leaving the construction site. If so it shall be documented and removed immediately.

NOTE: ALL EROSION AND SEDIMENT CONTROL DEVICES WILL BE CHECKED BY THE CONTRACTOR AFTER EACH STORM EVENT AND BE MAINTAINED, OR IMPROVED UPON AFTER EVERY STORM EVENT TO ENSURE ADEQUATE PERFORMANCE.

POLLUTION CONTROL :

1. Designate a Concrete Wash-out and truck wash area:
 - a. When washouts occur on the site, concrete washout water must be contained in a leak-proof containment facility or impermeable liner. Liquid and solid wastes may not touch the ground and there must not be runoff from the concrete washout operations or areas.
 - b. On sites where Concrete Washout areas are not feasible as shown on the Detail Sheet, above ground methods and/or off-site methods can be utilized as approved by Owner.
 - c. Concrete washout may be provided off-site by Concrete Contractor or Concrete Supplier, at an approved washout disposal area. Concrete Supplier may provide Concrete Washout Areas on-board their transports for disposal off-site. Concrete Contractor shall verify with Supplier in regards to provided Concrete Washout areas on and off-site, as necessary.
 - d. Limit external washing of trucks and other construction vehicles to a defined area preferably before the construction access/exit point. Wash vehicles only on an area stabilized with stone that drains into an approved sediment trapping device. Contain runoff and properly dispose of waste. Engine degreasing is prohibited.
2. Solid Waste: Properly dispose of collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris, and other wastes in compliance with State requirements.
3. Hazardous Materials: Properly dispose of all waste and unused building materials (including garbage debris, cleaning wastes, oil, gasoline, paint, wastewater, toxic materials, and hazardous materials) off-site. Do not allow waste and unused building materials to be carried by runoff into a receiving channel or storm sewer system. Properly store oil, gasoline, paint, and other hazardous materials in order to prevent spills, leaks, or other discharge. Include secondary containment. Restrict access to storage areas in order to prevent vandalism. Storage and disposal of hazardous materials must be in compliance with regulations.
4. Machinery: and mechanized equipment that leaks waste shall have a protective barrier or containment under the device adequate to contain the waste. Properly dispose of the waste.
5. Emergency spill station: Contractor shall locate and sign an emergency spill station that has necessary containment or cleanup devices for all workers to access.

EROSION CONTROL :

Apply necessary moisture to the construction area and haul roads to prevent the spread of dust.

Contractor shall utilize coarsely ground wood and tree mulches to cover exposed soils. Mulches shall be stored on site to supplement and use in problem areas during all phases of the construction project.

Contractor shall uses star tack or other organic substances in situations to prevent soil from eroding away by wind or rain.

Whenever possible contractor shall grade areas of soil to limit potential of erosion, to include tracking perpendicular to fall line of grades as well as diverting water flows from problematic areas on the site.

Seeding, fiber blankets, poly/tarps or cover mulches, disked mulches and compost can be used to cover temporarily exposed areas from wind and rain. Other methods by the contractor shall be documented in the SWPPP.

SEDIMENT CONTROL :

Inlet Sediment Control Protection Devices:

The following area approved Inlet Sediment Control Devices:

- a. Road Drain Top Slab Model RD 23 (fits rough opening for 2x3' inlet), Road Drain Top Slab Model RD 27 (fits rough opening for 27" inlet), or Road Drain Top Slab Model CG 3067 (fits Neenah Casting with 35-1/4x17-3/4" dimensions) manufactured by: WIMCO 799 Thes Drive Shakopee, MN, 55379 Phone (952) 233-3055 or approved equal
- b. Silt Sack manufactured by: ACF ENVIRONMENTAL 2831 Cardwell Road Richmond, VA, 23234 Phone (800) 448-3636 or approved equal
- c. IntraSafe Sediment Control Barrier. Install geotextile sock on the outside of the barrier in order to trap additional fines. Standard frames are available to fit 24" x 30" diameter and 2x3' openings. Distributed by: ROYAL ENTERPRISES AMERICA 30622 Forest Boulevard Stacy, MN, 55579 Phone (651) 462-2130 or approved equal
- d. Ridge Bag Rock Log. Use rock logs only for curb inlets after pavement is in place. Manufactured by RED BARN RIDGE, 3135 County Road 136, Saint Cloud, MN, 55301 Phone (800) 253-3744 or approved equal
- e. Inflatable drain plugs by Interstate Products www.interstateproducts.com or approved equal

Riprap:

Place a 450 mm (18 inch) thick layer of riprap onto a 225 mm (9 inch) thick layer of granular filter material at locations indicated on the plan in accordance with WIDOT Specification G06. Install two layers of medium duty Geotextile fabric (WIDOT HR, section G45.3.7) beneath the granular filter material. At pipe outfalls configure the installation as shown on detail sheet for the size of pipe indicated and extend the geotextile fabric under the culvert apron a minimum of 3 feet. For pipe sizes smaller than 300 mm (12 inch) diameter, the minimum quantity of riprap and filter blanket shall be no less than that required for 300 mm (12 inch) diameter pipes.

Silt Fence:

Install and maintain per WIDNR Conservation Practice Standard 1056.

Install silt fence along the contour (on a level horizontal plane) with the ends turned up (J-hooks) in order to help pond water behind the fence. Install the silt fence on the uphill side of the support posts. Provide a post spacing of 1.2 m (4 feet) or less. Drive posts at least 0.6 m (2 feet) into the ground. Anchor the silt fence fabric in a trench at least 152 mm (6 inches) deep and 152 mm (6 inches) wide dug on the upslope side of the support posts. Lay the fabric in the trench and then backfill and compact with a vibratory plate compactor. Make any splices in the fabric at a fence post. At splices, overlap the fabric at least 152 mm (6 inches), fold it over, and securely fasten it to the fence post. Silt fence supporting posts shall be 51 mm (2 inch) square or larger hardwood, pine, or standard T- or U-section steel posts. T- or U-section steel posts shall weigh not less than 1.8602 kg per meter (1.25 lb per lineal foot). Posts shall have a minimum length of 1524 mm (5 feet). Posts shall have projections to facilitate fastening the fabric and prevent slippage. Geotextile fabric shall meet the requirements of WIDOT Standard Specification G28 for preassembled silt fence, furnished in a continuous roll in order to avoid splices. Geotextile fabric shall be uniform in texture and appearance and have no defects, flaws, or tears. The fabric shall contain sufficient ultraviolet (UV) ray inhibitor and stabilizers to provide a minimum two-year service life outdoors. Fabric color shall be international orange. In high traffic areas contractor shall reinforce silt fence with wire fencing and metal posts, extreme circumstances will require temporary concrete median sections to support material backing of stock piled soil or filled earth.

Install silt fence, or other effective sediment controls, around all temporary soil stockpiles. Locate soil or dirt stockpiles containing more than 10 cubic yards of material such that the downslope drainage length is no less than 8 m (25 feet) from the toe of the pile to a roadway or drainage channel. If remaining for more than seven days, stabilize the stockpiles by mulching, vegetative cover, tarps, or other means. Control erosion from all stockpiles by placing silt fence barriers around the piles. During street repair, cover construction soil or dirt stockpiles located closer than 8 m (25 feet) to a roadway or drainage channel with tarps, and protect storm sewer inlets with silt sacks or staked silt fence. Do not stock pile soil or material near catch basins or drainage ways.

Stone Tracking Pad (Temporary Rock Construction Entrance):

Install and maintain per WIDNR Conservation Practice Standard 1057. Use 3 inch to 6" diameter rock. Place the aggregate in a layer at least 300 mm (12 inches) thick across the entire width of the entrance. Extend the rock entrance at least 15 m (50 feet) into the construction zone. Use a WIDOT Type R permeable geotextile fabric material beneath the aggregate in order to prevent migration of soil into the rock from below. Maintain the entrance in a condition that will prevent tracking or flowing of sediment onto paved roadways. Provide periodic top dressing with additional stone as required. Close entrances not protected by temporary rock construction entrances to all construction traffic.

Temporary Sediment Basins

In the construction process or if noted on the plan the contractor shall construct temporary sediment basin(s). As per general rule the sediment basin shall be sized appropriately to a capacity related to the drainage area on a ratio of 3,600 cubic feet per acre of drainage zone entering the basin. Basins shall be inspected after every rainfall event, material removed and stabilized. If changes to the basin are made, document and amend the SWPPP plan.

DEWATERING :

If dewatering is required and sump pumps are used, all pumped water must be discharged through an erosion control facility (temporary sedimentation basin, grit chamber, sand filter, upflow chamber, hydro-cyclone, swirl concentrator, dewatering bag or other appropriate facility) prior to leaving the construction site. Proper energy dissipation must be provided at the outlet of the pump system. Discharge clear water only. To achieve better separation of the material suspended in the water a biodegradable non toxic flocculant agent may be required. For more information and materials go to by Interstate Products www.interstateproducts.com

INSPECTIONS-MAINTENANCE-DAILY RECORD-AMEND THE SWPP PLAN

1. Contractor shall inspect all erosion and sediment control devices, stabilized areas, and infiltration areas on a daily basis until land-disturbing activity has ceased. Thereafter, inspect at least on a weekly basis until vegetative cover is established. Inspect all erosion and sediment control devices, stabilized areas, and infiltration areas within 24 hours after a rainfall event greater than 0.5 inches in 24 hours. Remove accumulated sediment deposits from behind erosion and sediment control devices as needed. Do not allow sediment to accumulate to a depth of more than one-third of the height of the erosion and sediment control devices. Immediately replace deteriorated, damaged, rotted, or missing erosion control devices. Document inspections and dates of rainfall events. Maintain a written log of all inspection, maintenance, and repair activities related to erosion and sediment control facilities. All nonfunctional BMP's must be repaired, replaced, or supplemented with functional BMP's within 24 hours after discovery, or as soon as field conditions allow access.
2. All inspections and maintenance activities must be recorded in writing DAILY in a detailed record (notes, photographs, sketches, etc, and kept with the SWPPP by the contractor.
3. Contractor shall remove all soils and sediments tracked or otherwise deposited onto adjacent property, pavement areas, sidewalks, streets, and alleys. Removal shall be on a daily basis throughout the duration of the construction and/or as directed by the City. Clean paved roadways by shoveling or wet-sweeping. Do not dry sweep. If necessary, scrape paved surfaces in order to loosen compacted sediment material prior to sweeping. Haul sediment material to a suitable disposal area. Street washing is allowed only after sediment has been removed by shoveling or sweeping.
4. All soil hauled from the site shall be accounted for and documented in the SWPP by the contractor. Its final destination and how the soil has been stored and stabilized.
5. Contractor shall maintain all temporary erosion and sediment control devices in place until the contributing drainage area has been stabilized (hard-surfaced areas paved and vegetation established in greenspace). Repair any rilling, gully formation, or washouts. After final establishment of permanent stabilization, remove all temporary synthetic, structural, and non-biodegradable erosion and sediment control devices and any accumulated sediments. Dispose-of off site. Restore permanent sedimentation basins to their design condition immediately following stabilization of the site.
6. Contractor shall clean sedimentation basins, storm sewer catchbasins, ditches, and other drainage facilities as required in order to maintain their effectiveness. Temporary and permanent sedimentation basins must be drained and the sediment removed when the depth of sediment collected in the basin reaches 1/2 of the storage volume. Drainage and removal must be completed within 72 hours, or as soon as field conditions allow access.
7. Contractor shall inspect infiltration areas to ensure that no sediment from ongoing construction activities is accumulating. Remove sediment immediately ensuring subsoils are not compacted by machinery.
8. Every vehicle shall not track material off-site. Clean the wheels of construction vehicles in order to remove soils before the vehicles leave the construction site. Wash vehicles only on an area stabilized with stone that drains into an approved sediment trapping device.
9. Contractor shall reinforce erosion control facilities in areas where concentrated flows occur (such as swales, ditches, and areas in front of culverts and catchbasins) by backing them with snow fence, wire mesh, or stiff plastic mesh reinforcement until paving and turf establishment operations have been completed. Posts for the reinforcing fence shall be 100 mm (4 inch) diameter wood posts, or standard steel fence posts weighing not less than 0.59 kg (1.3 lbs) per lineal foot, with a minimum length of 762 mm (30 inches) plus burial depth. Space posts for the reinforcing fence at intervals of 3 m (10 feet) or less. Drive posts for the reinforcing fence at least 0.6 m (2 feet) into the ground.

GENERAL SOIL STABILIZATION :

(SEE LANDSCAPE PLAN FOR MORE INFORMATION)

Establishment of lawn, prairie/wildflower and/or plant bed areas will be noted on the landscape plan

to ensure stabilization of soils, restaking of sod where applicable, proper watering and mulch maintenance will be required. Inspect seeded or sodded areas on a timely day-to-day basis. In the event of a seeding failure, reseed and mulch the areas where the original seed has failed to grow and perform additional watering as necessary at no additional cost to the Owner. Special maintenance provisions for wild and prairie grass seeded areas as noted in the landscape plan. Promptly replace all sod that dies out to the point where it is presumed dead and all sod that has been damaged, displaced, weakened, or heavily infested with weeds at no additional cost to the Owner. .

In areas to be temporarily seeded, use introduced seed mixture equivalent to WIDOT #10 or #20. Apply seed mixture per WIDOT G30.3.3.5. Incorporate a fertilizer (slow release type with 10 week residual) consisting of 23-0-30 (%N-P-K) into the soil at an application rate of 224 kg per hectare (200 lbs per acre) by diskng prior to seeding. In problematic areas it may be necessary to use a low phosphorus organic fertilizer in cases where seeds may not germinate. If this is the case, seed and fertilizer shall be disked into the surface and mulched properly to ensure germination and uptake of the Phosphorus by the seed.

To ensure adequate germination of the seed the work will be performed as follows:

Spring- from April 1 through May 15.
Fall- from August 15 to September 20.
After September 20, wait until October 30 to perform dormant seeding. Dormant seeding will only be allowed if the maximum soil temperature at a depth of 25 mm (1 inch) does not exceed 4.44 degrees C (40 degrees F) in order to prevent germination.

In seeded areas with slopes steeper than 3:1 and lengths less than 15 meters (50 feet), install biodegradable erosion control blankets uniformly over the soil surface by hand within 24 hours after seeding in accordance with manufacturers recommendations. Use WIDOT Urban Type B or owner approved equal.

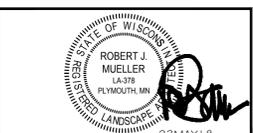
In areas where irrigation is to be installed, contractor shall work in zones to finish grade and install the system in zones. Note- Erosion control measures shall remain in place until soils have been stabilized with sod or seeded areas that exhibit minimum of 70% lawn vegetative coverage. If silt fence has to be removed to install the irrigation system, it shall be reinstalled at the end of each work day or use bio rolls to provide protection during the installation process until lawn areas have sod and/or plant beds are mulched.

In areas to be sodded, silt fence can be removed short term for working, but exposed soil areas shall be sodded or erosion control measures shall be reinstalled at the end of each work day.

NOTE: THE PROJECTS LANDSCAPE PLAN IS PART OF THE SWPP FOR SOIL STABILIZATION. REFERENCES SHALL BE MADE TO THE APPROVED LANDSCAPE PLAN. AMENDMENTS TO THE LANDSCAPE PLAN SHALL BE APPROVED BY THE OWNER AND DOCUMENTED AS PART OF THE SWPP



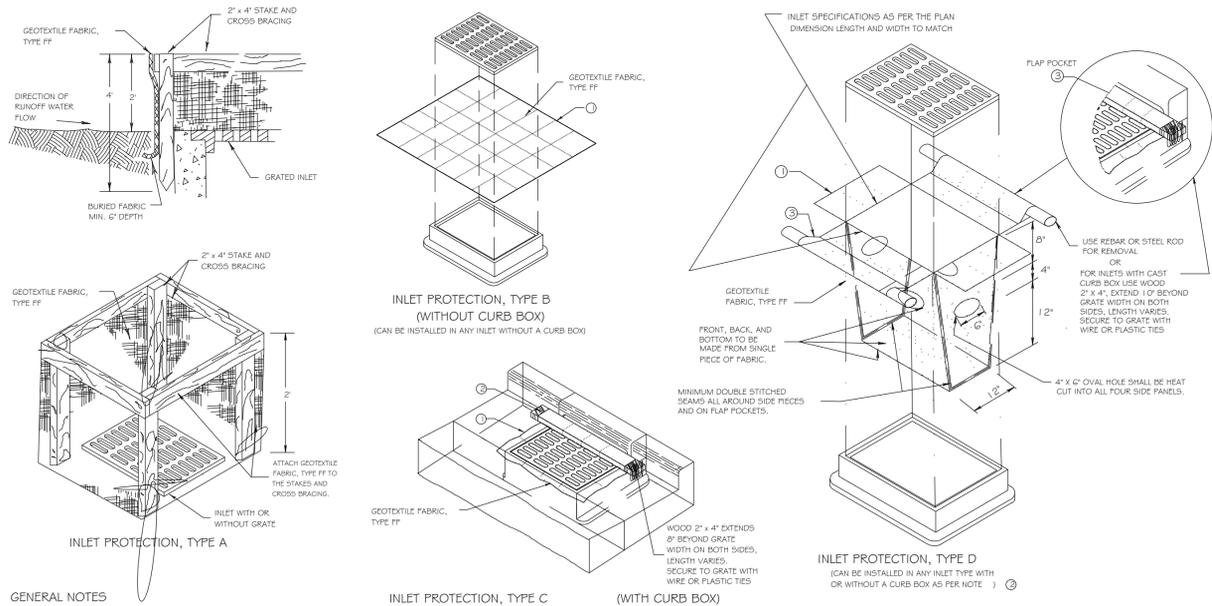
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FAX (608) 781-8960



EROSION CONTROL NOTES	CONVENIENCE STORE 968	2302 E MORELAND BLVD WAUKESHA, WISCONSIN	NO. DATE DESCRIPTION
			- 06MAR18 CITY COMMENTS - 07MAY18 APPROXCHG CHANGE - 23MAY18 CONSTRUCTION
DRAWN BY			SCALE GRAPHIC
PROJ. NO.			17968
DATE			09JAN2018
SHEET			SWP2

ALL EROSION CONTROL MEASURES TO BE INSTALLED AND MAINTAINED PER WDNR STANDARDS

<http://dnr.wi.gov/water/wm/nps/stormwater/techstds.htm>



GENERAL NOTES

- MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.
- WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.
- FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 1'0" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 1'0" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2x4.

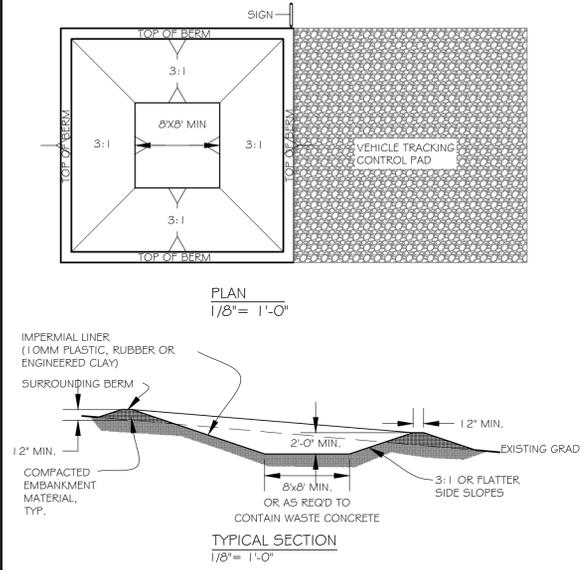
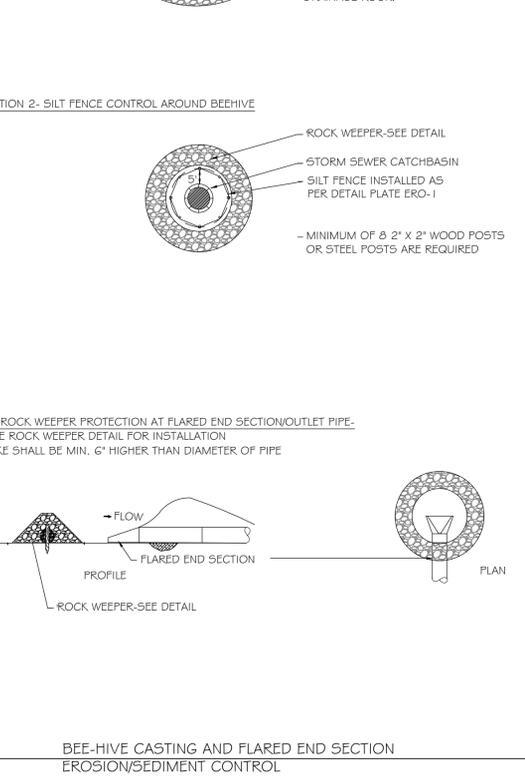
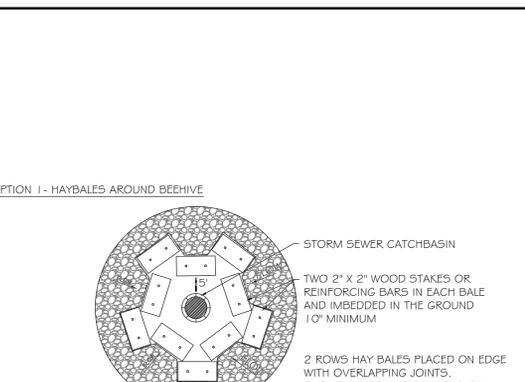
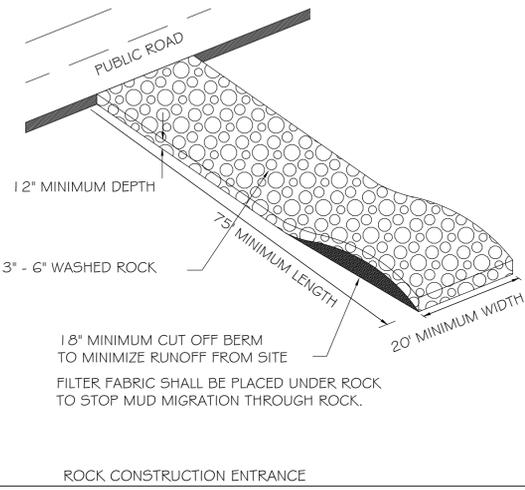
INSTALLATION NOTES

TYPE B & C
 TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLES OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D
 DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
 TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CATCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MINIMUM OF 4" FROM THE BOTTOM OF THE BAG.

This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 110-2.

INLET PROTECTION TYPE A, B, C, AND D

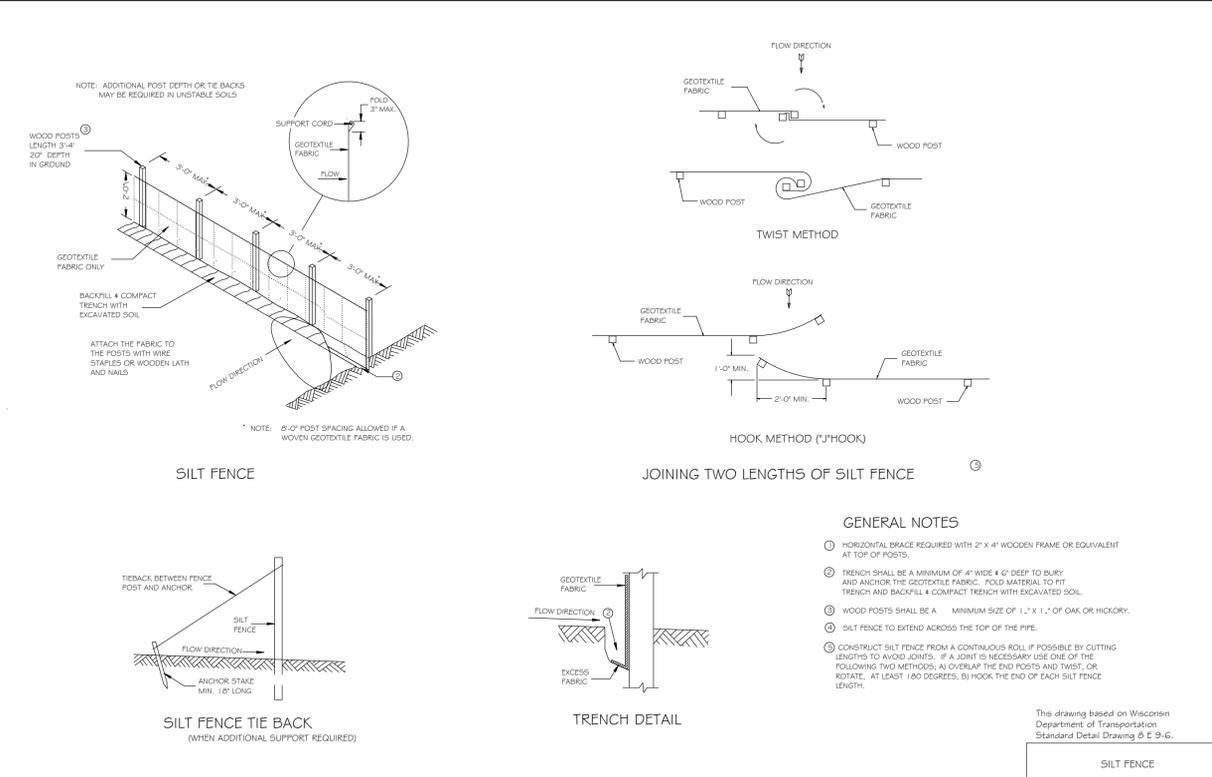


CONCRETE WASHOUT AREA INSTALLATION NOTES

- SEE EROSION CONTROL PLAN FOR LOCATIONS OF CONCRETE WASHOUT AREA(S), TO BE PLACED A MIN. OF 50' FROM DRAINAGEWAYS, BODIES OF WATER, AND INLETS.)
- THE CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
- VEHICLE TRACKING CONTROL PAD IS REQ'D AT THE ACCESS POINT(S).
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA(S), AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREAS TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

CONCRETE WASHOUT AREA MAINTENANCE NOTES

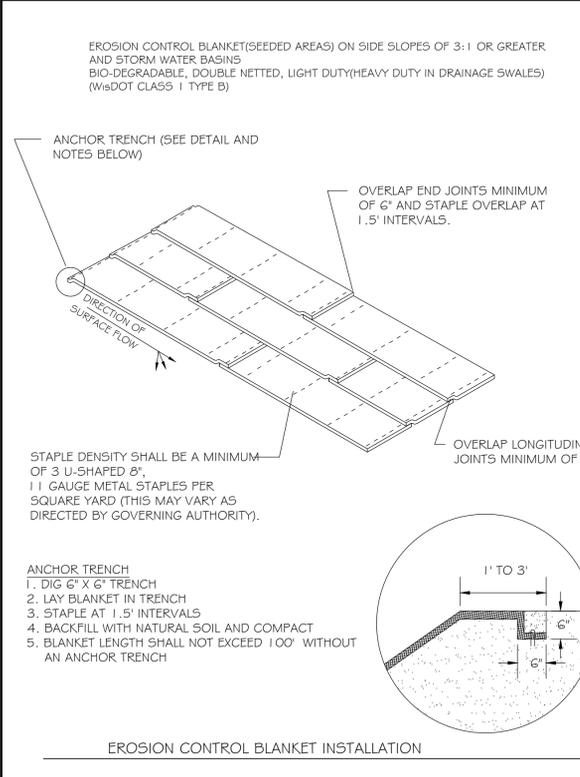
- THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
- AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
- WHEN CONCRETE WASHOUT AREA(S) IS REMOVED, THE DISTURBED AREA SHALL BE STABILIZED PER SITE EROSION CONTROL MEASURES.
- INSPECT WEEKLY AND DURING AND AFTER ALL STORM EVENTS. CLEAN-OUT OR COVER WASHOUT AREA PRIOR TO PREDICTED STORM EVENTS TO PREVENT OVER-FLOW.



GENERAL NOTES

- HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO ENRICH AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- WOOD POSTS SHALL BE A MINIMUM SIZE OF 1" X 1" OF OAK OR HICKORY.
- SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 91-G.



EROSION CONTROL BLANKET(SEEDED AREAS) ON SIDE SLOPES OF 3:1 OR GREATER AND STORM WATER BASINS BIO-DEGRADABLE, DOUBLE NETTED, LIGHT DUTY(HEAVY DUTY IN DRAINAGE SWALES) (WisDOT CLASS 1 TYPE B)

ANCHOR TRENCH (SEE DETAIL AND NOTES BELOW)

STAPLE DENSITY SHALL BE A MINIMUM OF 3 U-SHAPED 8", 11 GAUGE METAL STAPLES PER SQUARE YARD (THIS MAY VARY AS DIRECTED BY GOVERNING AUTHORITY).

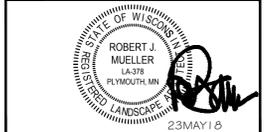
OVERLAP END JOINTS MINIMUM OF 6" AND STAPLE OVERLAP AT 1.5' INTERVALS.

OVERLAP LONGITUDINAL JOINTS MINIMUM OF 6"

ANCHOR TRENCH
 1. DIG 6" X 6" TRENCH
 2. LAY BLANKET IN TRENCH
 3. STAPLE AT 1.5' INTERVALS
 4. BACKFILL WITH NATURAL SOIL AND COMPACT
 5. BLANKET LENGTH SHALL NOT EXCEED 100' WITHOUT AN ANCHOR TRENCH

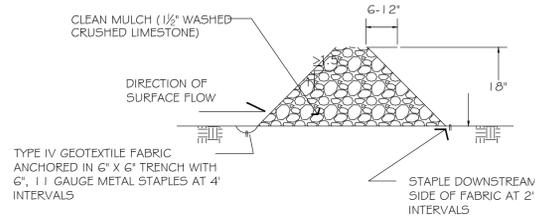


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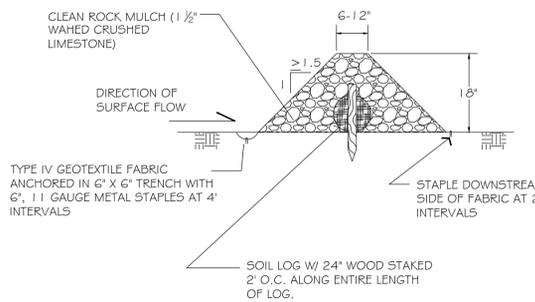


EROSION CONTROL DETAILS CONVENIENCE STORE 968 2302 E MORELAND BLVD WAUKESHA, WISCONSIN	NO.	DATE	DESCRIPTION
	-	06MAR18	CITY COMMENTS
	-	07MAY18	APPROACH CHANGE
	-	23MAY18	CONSTRUCTION
	DRAWN BY		
SCALE			17968
PROJ. NO.			09JAN2018
DATE			17-052 R.V.C.N.
SHEET			SWP3

I. ROCK WEEPER @ MINIMAL WATER FLOWS



II. BIO WEEPER @ CONCENTRATED FLOWS



DITCH CHECKS, ROCK WEEPERS, & ROCK BIO WEEPERS
EROSION CONTROL

Channel Erosion Mat
(1053)

Wisconsin Department of Natural Resources
Conservation Practice Standard

I. Definition

A protective soil cover of straw, wood, coconut fiber or other suitable plant residues, or plastic fibers formed into a mat, usually with a plastic or biodegradable mesh on one or both sides. Erosion mats are rolled products available in many varieties and combinations of materials and with varying life spans.

II. Purpose

The purpose of this practice is to protect the channel from erosion or act as turf reinforcement during and after the establishment of grass or other vegetation in a channel. This practice applies to both Erosion Control Revegetative Mat (ECRM) and Turf-Reinforcement Mat (TRM).

III. Conditions Where Practice Applies

This standard applies where runoff channelizes in intermittent flow and vegetation is to be established. Some products may have limited applicability in projects adjacent to navigable waters.

IV. Federal, State, and Local Laws

Users of this standard shall be aware of applicable federal, state, and local laws, rules, regulations, or permit requirements governing the use and placement of erosion mat. This standard does not contain the text of federal, state, or local laws.

V. Criteria

This section establishes the minimum standards for design, installation and performance requirements. To complete the shear calculations, a 2 year, 24 hour storm event shall be used to calculate depth of flows for an ECRM. For using a TRM, use the depth of flow corresponding to the maximum design capacity of the channel.

Only mats listed in the Wisconsin Department of Transportation (WisDOT) Erosion Control Product Acceptability List (PAL) will be accepted for use in this standard.

To differentiate applications WisDOT organizes erosion mats into three classes of mats, which are further broken down into various types.

A. Class I - A short-term duration (minimum of 6 months), light duty, organic ECRM with plastic or biodegradable netting.

1. Type A - Only suitable for slope applications, not channel applications.
2. Type B - Double netted product for use in channels where the calculated (design) shear stress is 1.5 lbs/ft² or less.

B. Class II - A long-term duration (three years or greater), organic ECRM.

1. Type A - Jute fiber only for use in channels to reinforce soil.
2. Type B - For use in channels where the calculated (design) shear stress is 2.0 lbs/ft² or less. Made with plastic or biodegradable mat.
3. Type C - A woven mat of 100% organic material for use in channels where the calculated (design) shear stress is 2.0 lbs/ft² or less. Applicable

Conservation Practice Standards are reviewed periodically and updated if needed. To obtain the current version of this standard, contact your local DNR office or the Standards Oversight Council office in Madison.
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
12/04

¹Words in the standard that are shown in italics are described in X. Definitions. The words are italicized the first time they are used in the text.

for use in environmentally sensitive areas where plastic netting is inappropriate.

C. Class III - A permanent 100% synthetic ECRM or TRM. Class I, Type B erosion mat or Class II, Type B or C erosion mat must be placed over a soil filled TRM.

1. Type A - An ECRM for use in channels where the calculated (design) shear stress of 2.0 lbs/ft² or less.
2. Type B - A TRM for use in channels where the calculated (design) shear stress of 2.0 lbs/ft² or less.
3. Type C - A TRM for use in channels where the calculated (design) shear stress of 3.5 lbs/ft² or less.
4. Type D - A TRM for use in channels where the calculated (design) shear stress of 5.0 lbs/ft² or less.

D. Installation

1. ECRM shall be installed after all topsoiling, fertilizing, liming, and seeding is complete.
2. Erosion mats shall extend for whichever is greater: upslope one-foot minimum vertically from the ditch bottom or 6 inches higher than the design flow depth.
3. The mat shall be in firm and continuous contact with the soil. It shall be anchored, overlapped, staked and anchored per the manufacturer's recommendations.
4. TRM shall be installed in conjunction with the topsoiling operation and shall be followed by ECRM installation.
5. At time of installation, document the manufacturer and mat type by saving material labels and manufacturer's installation instructions. Retain this documentation until the site is stabilized.

VI. Considerations

- A. Erosion mat shall be selected so that they last long enough for the grass or other vegetation to become densely established.
- B. Consider using Class II, Type C mats adjacent to waterways where trapping small animals is to be avoided.
- C. Class III TRM may be appropriate as a replacement for riprap in a channel liner. Check the shear stress criteria for the channel to determine mat applicability.
- D. Once a gully has formed in a channel, it is difficult to stabilize due to loss of soil structure. Even when the gully is filled with topsoil and reseeded, the soil has a tendency to dislodge in the same pattern. If gully formation continues to be a problem, the design should be reevaluated, including other mat classes or riprap.
- E. It may be difficult to establish permanent vegetation and adequate erosion protection in a channel with continuous flow. Consider riprap or planting wetland species with an ECRM.
- F. Documentation of materials used, monitoring logs, project diary, and weekly inspection forms including erosion and stormwater management plans, should be provided to the authority charged with long term maintenance of the site.
- G. Channel cross sections may be parabolic, v-shaped or trapezoidal. The use of "v" channels is generally discouraged due to erosion problems experienced.
- H. To help determine the appropriate channel liner, designers can refer to the design matrix in the back of the WisDOT PAL. However, for channels not conforming to the typical sections shown in the channel matrix or having a depth of flow greater than 6 inches (150 mm), the designer will need to design

for an appropriate channel liner. One way to do this is to use the "reactive force" method presented in FHWA's Hydraulic Engineering Circular (HEC) No. 15. This method requires that the calculated maximum shear stress of a channel is not to exceed the permissible shear stress of the channel liner. To use this method, permissible shear stress values are listed next to each device listed in the channel matrix.

VII. Plans and Specifications

- A. Plans and specifications for installing erosion mat shall be in keeping with this standard and shall describe the requirements for applying the practice to achieve its intended purpose. The plans and specifications shall address the following:
 1. Location of erosion mat
 2. Installation sequence
 3. Material specification conforming to standard
- B. All plans, standard detail drawings, or specifications shall include schedule for installation, inspection, and maintenance. The responsible party shall be identified.

VIII. Operation and Maintenance

- A. Erosion mats shall be inspected weekly and within 24 hours after every precipitation event that produces 0.5 inches of rain or more during a 24-hour period.
- B. If there are signs of filling under the mat, install more staples or more frequent anchoring trenches. If filling becomes severe enough to prevent establishment of vegetation, remove the section of mat where the damage has occurred. Fill the eroded area with topsoil, compact, reseed and replace the section of mat, trenching and overlapping ends per manufacturer's recommendations. Additional staking is recommended near where filling was filled.
- C. If the reinforcing plastic netting has separated from the mat, remove the plastic and if necessary replace the mat.

D. Maintenance shall be completed as soon as possible with consideration to site conditions.

IX. References

WisDOT "Erosion Control Product Acceptability List" is available online at <http://www.dot.wisconsin.gov/business/engrtrv/pal.htm>.

X. Definitions

Channel Erosion: The deepening and widening of a channel due to soil loss caused by flowing water. As rills become larger and flows begin to concentrate, soil detachment occurs primarily as a result of shear.

Erosion Control Revegetative Mat (ECRM) (II): Erosion control revegetative mats are designed to be placed on top of soil.

Turf-Reinforcement Mat (TRM) (II): Turf-reinforcement mats are permanent devices constructed from various types of synthetic materials and buried below the surface to help stabilize the soil. TRMs must be used in conjunction with an ECRM or an approved soil stabilizer Type A (as classified in the WisDOT PAL).

Kwik TRIP

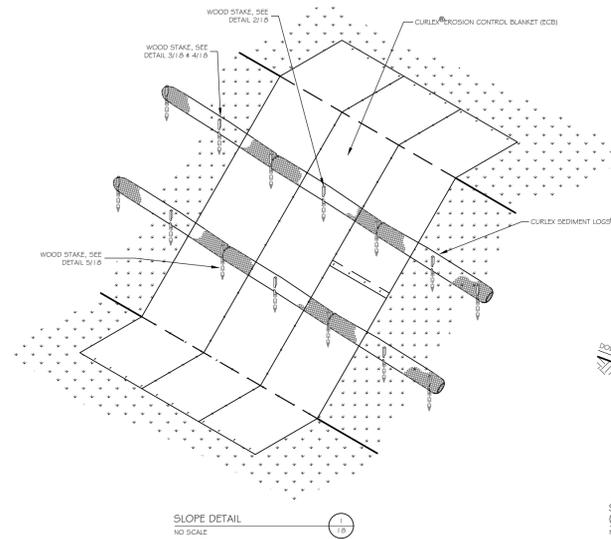
Kwik STAR

KWIK TRIP, Inc.
P.O. BOX 2107
1626 OAK STREET
LACROSSE, WI 54602-2107
PH. (608) 781-8988
FAX (608) 781-8960

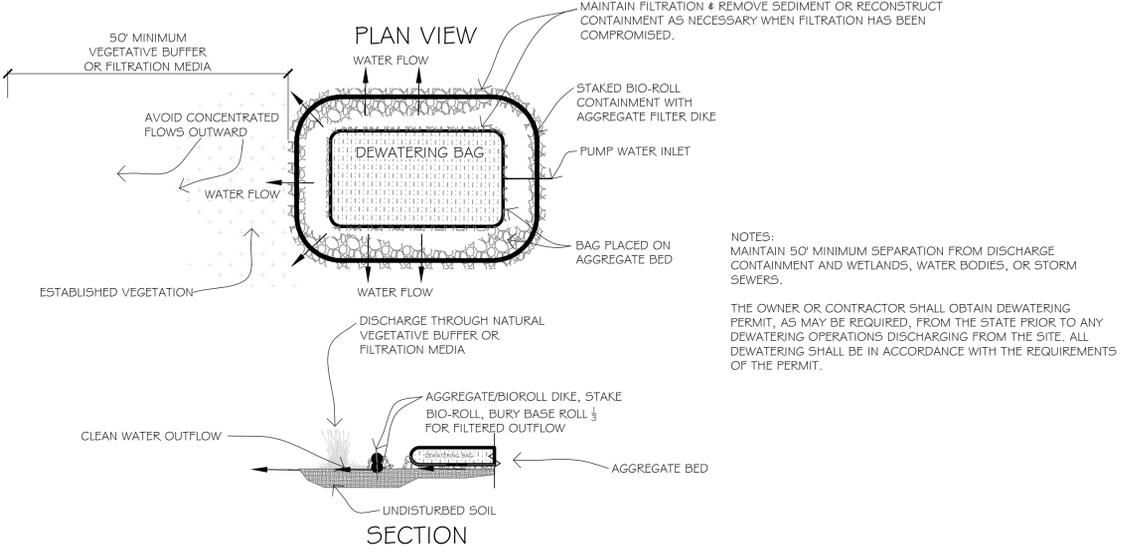
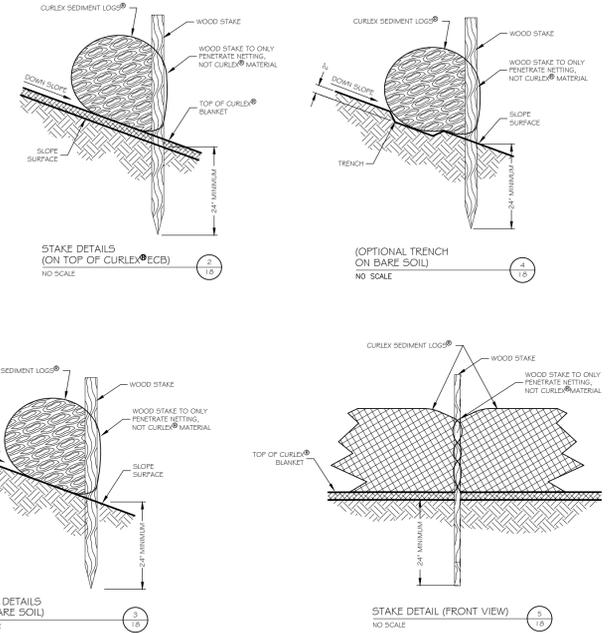
INSITES
SITE PLANNING LANDSCAPE ARCHITECTURE
3030 Harbor Lane North, STE 131
Plymouth, Minnesota 55447
763.383.8400
fax 763.383.8400

STATE OF WISCONSIN
ROBERT J. MUELLER
LANDSCAPE ARCHITECT
23MAY18

NOTE: SEDIMENT LOGS SHALL BE "CURLX" BY AMERICAN EXCELSIOR COMPANY
www.americanexcelsior.com/erosioncontrol/
OR APPROVED EQUAL



BIO ROLL INSTALLATION ("LOG WEEPERS")
EROSION CONTROL

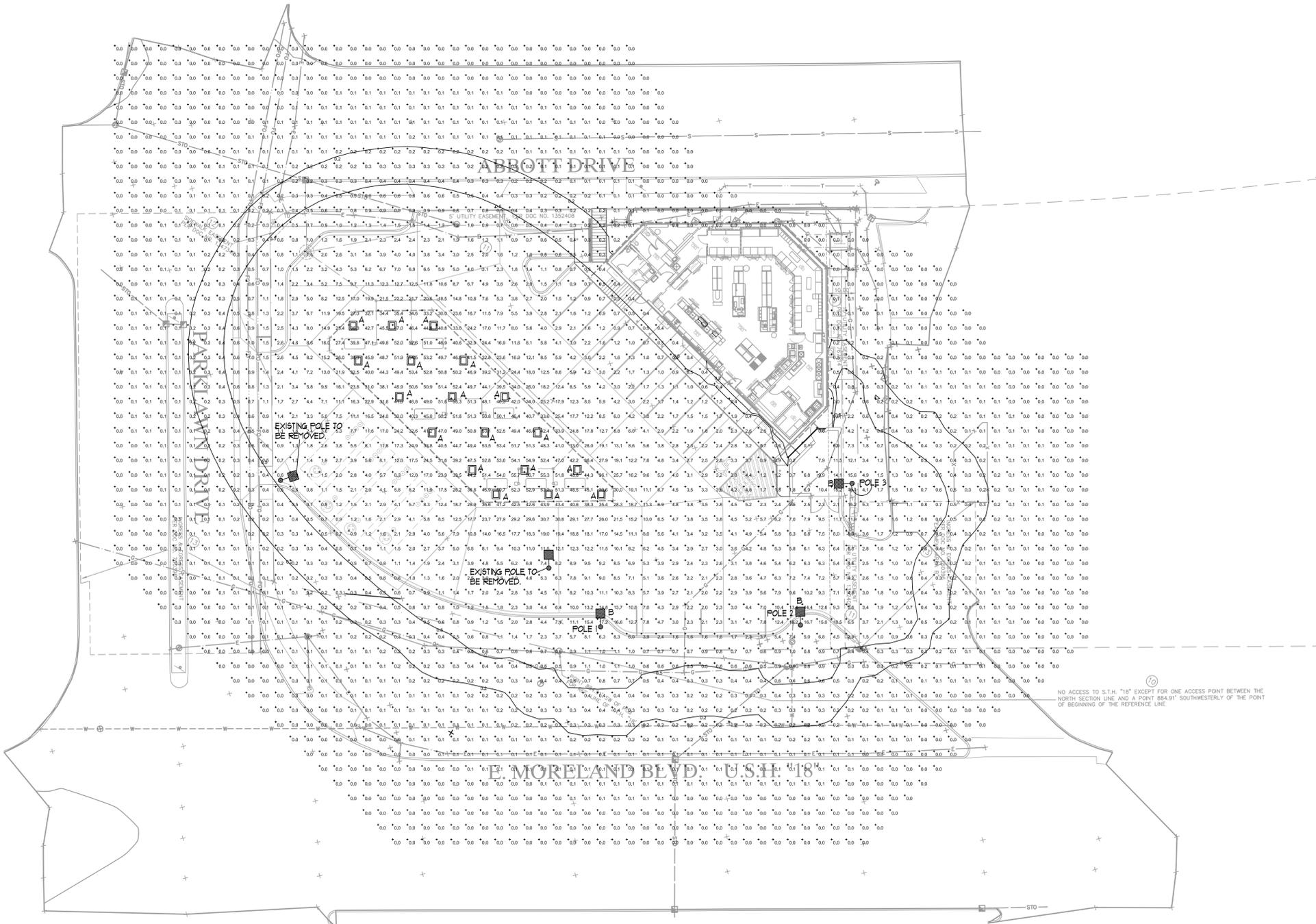


EROSION CONTROL DETAILS
CONVENIENCE STORE 968
2302 E MORELAND BLVD
WAUKESHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	06MAR18	CITY COMMENTS
-	07MAY18	APPROACH CHANGE
-	23MAY18	CONSTRUCTION

DRAWN BY: _____
SCALE: GRAPHIC
PROJ. NO.: 17968
DATE: 09JAN2018
SHEET: **SWP4**

REVISED 17-05-2018 P.M.C.N.



NOTE:
 FOOTCANDLES ON THIS PLAN ARE MEASURED AT GRADE. CALCULATIONS DO NOT INCLUDE CONTRIBUTION FROM EXISTING LIGHTING FROM CONVENIENCE STORE BUILDING.

FIXTURE SYMBOLS:

- A LED UNDER FUEL CANOPY
- LED POLE MOUNTED FIXTURE
- B LED POLE MOUNTED FIXTURE

FIXTURE TYPES:

- A - L61 LIGHTING: CR18-5C-LED-HO-50-WHITE
- B - L61 LIGHTING: XLCS-FT-LED-HO-CU-UE-WHITE

PHOTOMETRIC SITE PLAN
 SCALE: 1" = 20'-0"

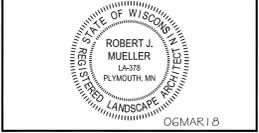
CZARNECKI ENGINEERING INCORPORATED
 811 MARLIN COURT, SUITE B - WAUKESHA, WI 53186
 VOICE: (262) 515-2070 FAX: (262) 515-2073
 WEB PAGE: www.cczeng.com

KWIK TRIP

KWIK STAR

KWIK TRIP, Inc.
 P.O. BOX 2107
 1626 OAK STREET
 LACROSSE, WI 54602-2107
 PH. (608) 781-8988
 FAX (608) 781-8960

INSITES
 SITE PLANNING LANDSCAPE #
 3030 HARGHESURE ONE NORTH, STE 131
 PLYMOUTH MINNESOTA
 55447
 763.383.8400
 (763) 783.333.8440



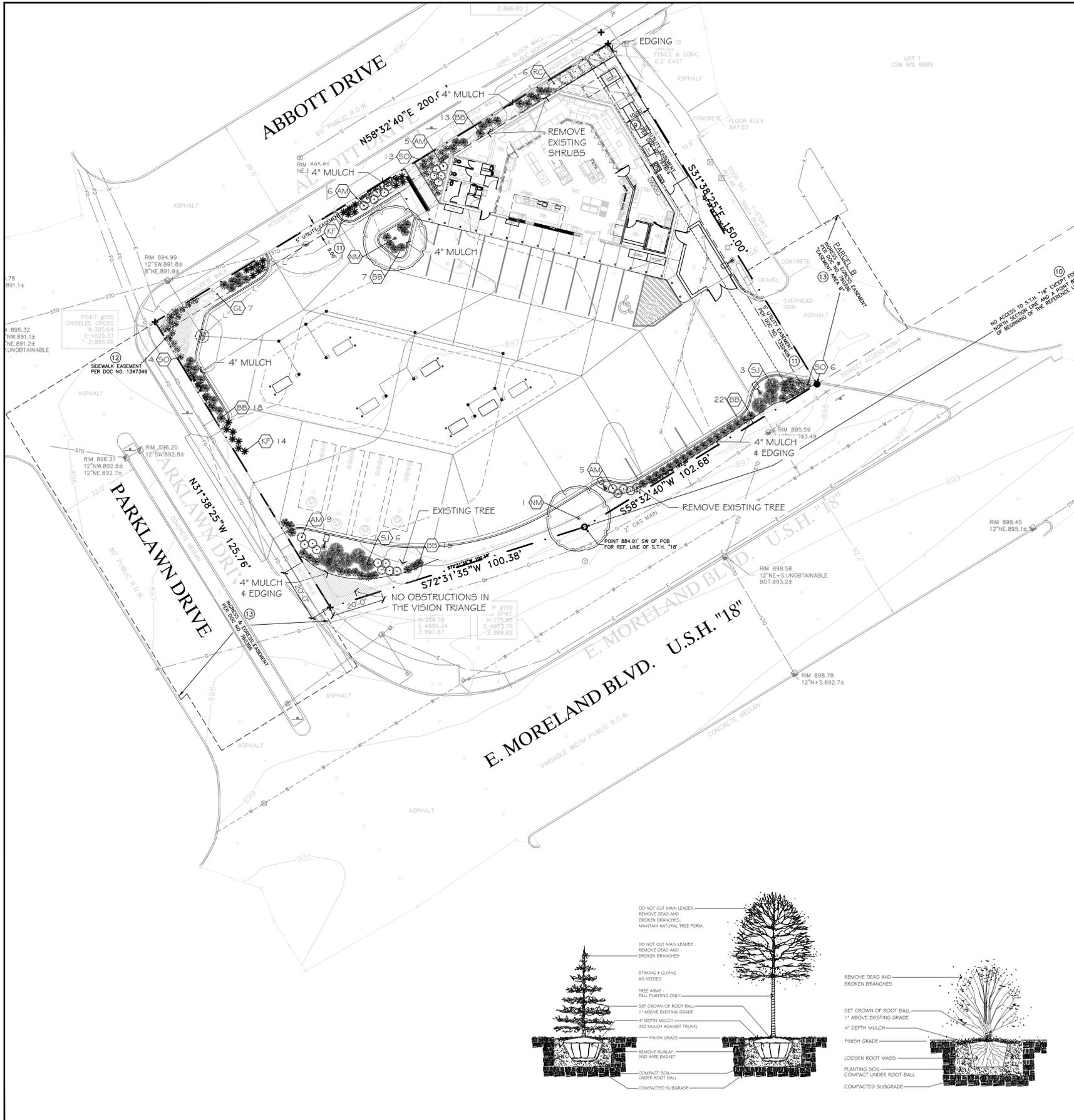
PHOTOMETRIC SITE PLAN

CONVENIENCE STORE 968

2302 E MORELAND BLVD
 WAUKESHA, WISCONSIN

NO.	DATE	DESCRIPTION
1	09JAN2018	CITY COMMENTS

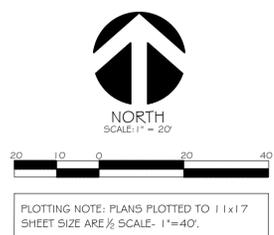
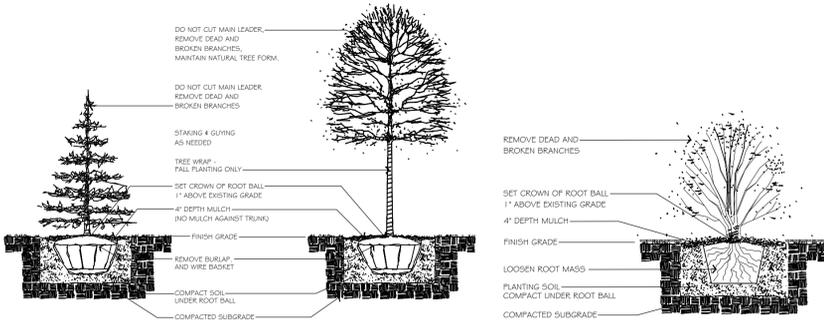
DRAWN BY: CZE
 SCALE: GRAPHIC
 PROJ. NO.: 17968
 DATE: 09JAN2018
 SHEET: E1



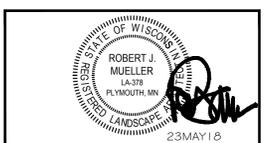
- NOTES:**
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR PLANTING IN ALL R.O.W.
 - LANDSCAPE CONTRACTOR SHALL VERIFY ALL UTILITIES WHICH MAY EFFECT HIS WORK.
 - LANDSCAPE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHERS AT SITE AND COMPLETE HIS WORK PER OWNERS CONSTRUCTION SCHEDULE.
 - ALL PLANT MATERIALS SHALL BE GUARANTEED ONE (1) FULL YEAR UPON TOTAL COMPLETION AND ACCEPTANCE BY OWNER, WITH ONE TIME REPLACEMENT AT APPROPRIATE TIME OR UPON REQUEST OF OWNER.
 - REPLACEMENT TOPSOIL SHALL BE CLEAN, FREE OF STONES, WEEDS, AND OTHER UNDESIRABLE DEBRIS.
 - PLANTING SOIL MIX (INCIDENTAL COST ITEM)
 1. MIX 1 LB. 5-20-20 COMMERCIAL FERTILIZER PER CU. YD. TOPSOIL
 2. THOROUGHLY MIX 1-PART SAND AND 1-PART PEAT MOSS WITH 5-PARTS FERTILIZER AND TOP SOIL.
 - USE PLANTING SOIL AT ALL LOCATIONS PER DETAILS THIS SHEET.
 - LANDSCAPE CONTRACTOR SHALL VERIFY TOPSOIL DEPTH AND NOTIFY OWNER OF ANY DEFICIENCY.
 - SOD SHALL BE CULTURED WITH PREDOMINATELY KENTUCKY BLUEGRASS SEED OF RECENT DISEASE RESISTANT INTRODUCTIONS. NO GUARANTEE ON SOD EXCEPT ANY SOD NOT SATISFACTORY AT TIME OF COMPLETION INSPECTION SHALL BE PROMPTLY REPLACED PRIOR TO COMPLETION OF JOB. STAKE SOD ON SLOPES 3:1 AND GREATER.
 - WHERE EXISTING CONCRETE/ ASPHALT AREAS ARE TO BE REPLACED WITH LANDSCAPING, PROVISIONS SHOULD BE TAKEN TO COORDINATE EXCAVATION OF SUBSOIL TO A DEPTH OF 2' WITH GRADING CONTRACTOR. REPLACE WITH COMPACTED TOPSOIL. ALL AREAS TO BE LANDSCAPED AND SODDED SHALL BE GRADED SMOOTH AND EVEN.
 - LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR SODDING ALL AREAS WHICH ARE DISTURBED BY CONSTRUCTION INCLUDING ALL R.O.W. AND ADJACENT PROPERTIES.
 - LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR PROVIDING BLANKET ON ALL SEEDED AREAS THAT ARE SLOPED. MULCH APPLICATION FOR ALL OTHER SEEDED AREAS SHALL BE EITHER HYDROMULCH OR DISKED STRAW DEPENDING ON SEED TYPE, APPLICATION, AND OWNER REQUEST.
 - LANDSCAPE CONTRACTOR TO INSTALL VALLEY VIEW, "BLACK DIAMOND" EDGING AROUND ALL PLANTING BEDS AS SHOWN ON THIS PLAN.
 - ALL MULCH TO BE FINELY SHREDDED HARDWOOD ORGANIC BARK MULCH, NO DYED MULCHES. INSTALL 4" DEPTH. NO FILTER FABRIC BENEATH ORGANIC MULCHES. NO EDGING AROUND ALL TREES OUTSIDE SHRUB BEDS.
 - IF SPECIFIED, ALL GRAVEL MULCH SHALL BE 1" DIA. WASHED "RIVER ROCK". INSTALL 4" DEPTH WITH APPROVED WEED FABRIC BARRIER IF INDICATED PLAN.
 - LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR IRRIGATION SYSTEM INSTALLATION PER SHEET 11. DESIGN SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION. IRRIGATION DESIGN SHOULD ENCOMPASS ALL LANDSCAPE AREAS WITH SOD AND/OR PLANTINGS, FROM CURB TO CURB. R.O.W. SHOULD BE IRRIGATED FROM SPRINKLER HEADS LOCATED WITHIN PROPERTY BOUNDARY. CARE SHOULD BE TAKEN IN VICINITY OF ALL WALKS AND DRIVES TO MINIMIZE OVER SPRAY. COORDINATE INSTALLATION OF ALL PVC SLEEVE UNDER DRIVE AREAS WITH GENERAL CONTRACTOR.
 - LANDSCAPE CONTRACTOR SHALL CLEAN ALL PAVEMENT AREAS AFTER ALL LANDSCAPE INSTALLATION IS COMPLETE AND ACCEPTED BY OWNER AND DAILY AS DEEMED NECESSARY BY THE CITY.
 - GENERAL CONTRACTOR TO SWEEP PAVEMENT AREAS PRIOR TO TURN OVER TO OWNER.

PLANT MATERIAL						HEIGHT	X	WIDTH
	QUANTITY	SIZE	ROOT TYPE	COMMON NAME	BOTANICAL NAME			
OVERSTORY TREES								
⊙	NM	2	2.5" CAL.	B&B	NORTHWOOD MAPLE			50' x 35'
					<i>Acer rubrum 'Northwood'</i>			
SHRUBS								
⊙	RC	6	#3 CONT	pot	BRIGHTLISIMA RED CHOKEBERRY			5' x 5'
					<i>Aronia arbutifolia 'Brilliantissima'</i>			
⊙	GL	7	#3 CONT	pot	GRO-LOW FRAGRANT SUMAC			2' x 7'
					<i>Rhus aromatica 'Gro-Low'</i>			
⊙	AM	25	#3 CONT	pot	AUTUMN MAGIC CHOKEBERRY			4' x 3'
					<i>Aronia melanocarpa 'Autumn Magic'</i>			
●	SJ	9	#3 CONT	pot	GREEN SARGENT JUNIPER			20' x 8'
					<i>Juniperus chinensis 'var. sargentii Vindis'</i>			
PERENNIALS								
⊙	SO	33	#1 CONT	pot	STELLA DE ORO DAYLILY			2' x 3'
					<i>Heemerocallis 'Stella de Oro'</i>			
GRASSES								
⊙	BB	75	#1 CONT	pot	BIG BLUESTEM			5' x 6'
					<i>Andropogon gerardi</i>			
⊙	KF	23	#1 CONT	pot	KARL FORESTER FEATHER REED GRASS			4' x 30'
					<i>Calamagrostis x acutiflora 'Karl Forester'</i>			

EDGING - 1 CO LF
 MULCH - 30 CY
 SOD - REPAIR AS NEEDED



KWIK TRIP, Inc.
 P.O. BOX 2107
 1626 OAK STREET
 LACROSSE, WI 54602-2107
 PH. (608) 781-8988
 FAX (608) 781-8960



LANDSCAPE PLAN
CONVENIENCE STORE 968
2302 E MORELAND BLVD
WAUKESHA, WISCONSIN

NO.	DATE	DESCRIPTION
-	06MAR18	CITY COMMENTS
-	07MAY18	APPROACH CHANGE
-	23MAY18	CONSTRUCTION

DRAWN BY: GRAPHIC
 SCALE: 1/4" = 1'-0"
 PROJ. NO.: 17968
 DATE: 09JAN2018
 SHEET: L1

REVISED 17-052 R.W.C.N.

Exhibit C

Storm Water Practice Maintenance Plan

This exhibit explains the basic function of each of the storm water practices listed in Exhibit B and prescribes the minimum maintenance requirements to remain compliant with this Agreement. The maintenance activities listed below are aimed to ensure these practices continue serving their intended functions in perpetuity. The list of activities is not all inclusive, but rather indicates the minimum type of maintenance that can be expected for this particular site. Access to the stormwater practices for maintenance vehicles is shown in Exhibit B. Any failure of a storm water practice that is caused by a lack of maintenance will subject the Owner(s) to enforcement of the provisions listed on page 1 of this Agreement by the City of Waukesha.

System Description:

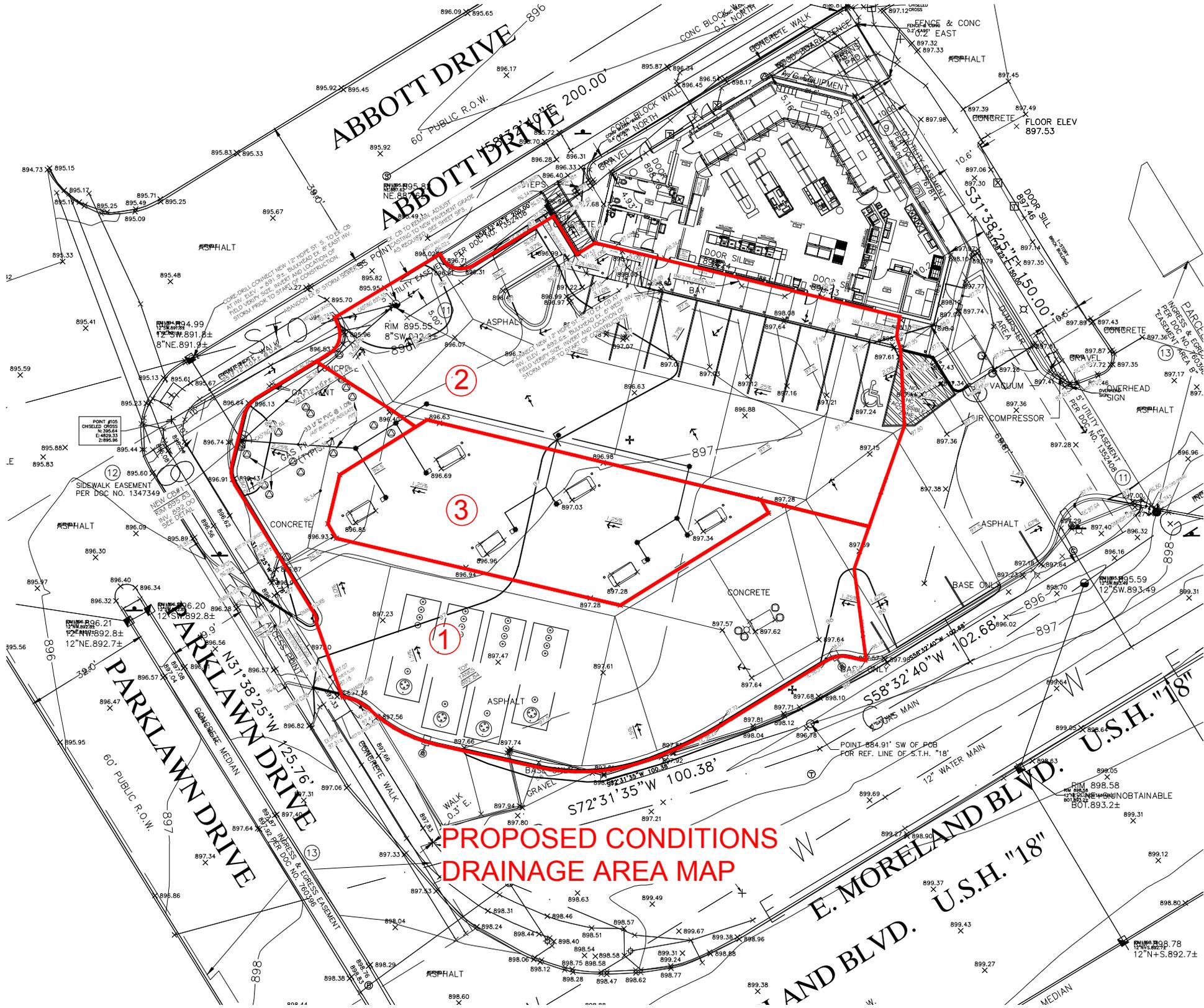
Kwik Trip is proposing to reconstruct the existing paved parking lot at the existing gas station and convenience store located at the southeast corner of Abbott Drive and Parklawn Drive in Waukesha, WI. The parking lot reconstruction will include the installation of a new sumped storm sewer catchbasin, oil-debris skimming device, and storm sewer piping. The existing storm sewer catchbasin located at the existing driveway entrance off of Abbott Drive will remain. This existing catchbasin will be re-routed with new storm piping to the new catchbasin. All stormwater runoff that comes into contact with the fueling islands drains to the new sumped catchbasin and oil-debris skimming device. The stormwater management system serves approximately 0.395 acres of the site consisting of paved areas and the gas canopy.

Construction drawings of the catch basin, showing dimensions, elevations and locations are provided as part of Exhibit B.

Minimum Maintenance Requirements:

To ensure the proper long-term function of the storm water management practices described above, the following activities must be completed using the inspection checklist on the following pages:

1. Catch basin inlets and outlets must be checked after heavy rains (minimum of annually) for excessive trash, debris or sediment accumulation at inlet as well as signs of erosion at or around the inlet.
2. When sediment in the sumps has accumulated to an elevation of foot below the outlet elevation, it must be removed. All removed sediment must be disposed of according to applicable regulations.
3. If standing oil and gas is discovered during annual inspection, the sump will be pumped. The waste is to be treated as contaminated and disposed of properly.
4. Storm Detention Areas shall be checked annually for signs of erosion or bare soil along the perimeter of the swale. Trash and debris shall be removed. Removal of sediment shall be hand using a flat-bottomed shovel during dry periods.
5. Any other repair or maintenance needed to ensure the continued function of the storm water practices or as ordered by the City of Waukesha under the provisions listed on page 1 of this Agreement.
6. The titleholder(s) or their designee must document all inspections as specified above. Documentation shall include as a minimum: (a) Inspectors Name, Address and Telephone Number, (b) Date of Inspections, (c) Condition Report of the Storm Water Management Practice, (d) Corrective Actions to be Taken and Time Frame for Completion, (e) Follow-up Documentation after Completion of the Maintenance Activities. All documentation is to be delivered to the attention of the City Engineer at the City of Waukesha Engineering Department on January 10th and July 10th each year.



**PROPOSED CONDITIONS
DRAINAGE AREA MAP**



Kwik Trip Stormwater BMP Inspection

Store #: 968

Number of BMPs: 3

Location (City, State): Waukesha WI

Weather: _____

Inspection date: _____

Inspection By: _____

Inspection Results:

<u>Maintenance Required:</u>	YES	NO	N/A	<u>Maintenance Required:</u>	YES	NO	N/A
Infall Erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Woody Vegetation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outfall Erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sparse/Weedy Vegetation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outlet Structure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Infiltration Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Depth/Sediment Accumulation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Algae	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Basin Liner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Invasive Species	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Safety Shelf	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Permanent Pool Leve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Structures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other			

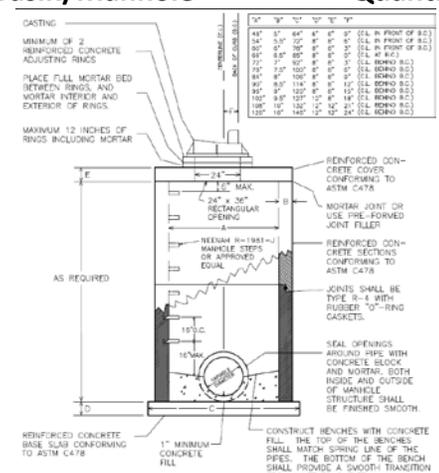
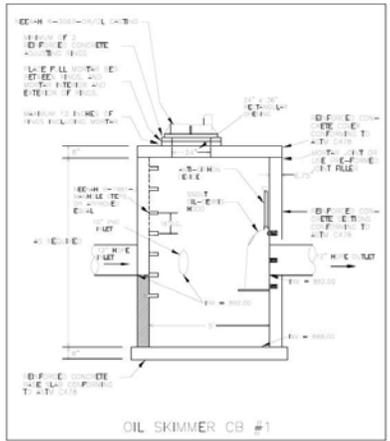
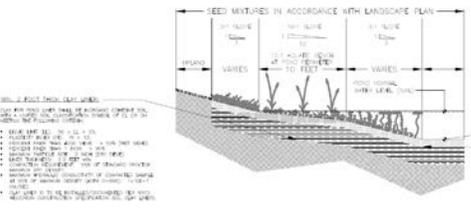
Attach pictures on last page

Communication Notes

Phone Fax Written E-Mail Personal Discussion

To whom: _____

Comments: _____

<p>Catch Basin/Manhole Quantity: 2</p>  <p>CASTING</p> <p>MINIMUM OF 2 REINFORCED CONCRETE ACOUSTIC RINGS</p> <p>PLACE FULL MORTAR BED BETWEEN RINGS AND MORTAR INTERIOR AND EXTERIOR OF RINGS</p> <p>MAXIMUM 12 INCHES OF RINGS INCLUDING MORTAR</p> <p>REINFORCED CONCRETE COVER CONFORMING TO ASTM C478</p> <p>24" x 36" RECTANGULAR OPENING</p> <p>MORTAR JOINT OR USE PRE-FORMED JOINT FILLER</p> <p>REINFORCED CONCRETE SECTIONS CONFORMING TO ASTM C478</p> <p>JOINTS SHALL BE TYPE R-8 WITH RUBBER "O"-RING GASKETS.</p> <p>SEAL OPENINGS AROUND PIPE WITH CONCRETE SLOTTED AND MORTAR BOTH INSIDE AND OUTSIDE OF MANHOLE STRUCTURE SHALL BE FINISHED SMOOTH</p> <p>CONSTRUCT BENCHES WITH CONCRETE FILL. THE TOP OF THE BENCHES SHALL MATCH SPRING LINE OF THE PIPES. THE BOTTOM OF THE BENCH SHALL PROVIDE A SMOOTH TRANSITION FROM INLET TO OUTLET.</p> <p>REINFORCED CONCRETE BASE SLAB CONFORMING TO ASTM C478</p> <p>1" MINIMUM CONCRETE FILL</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td>12"</td><td>18"</td><td>24"</td><td>30"</td><td>36"</td> </tr> <tr> <td>48"</td><td>54"</td><td>60"</td><td>66"</td><td>72"</td> </tr> <tr> <td>72"</td><td>78"</td><td>84"</td><td>90"</td><td>96"</td> </tr> <tr> <td>96"</td><td>102"</td><td>108"</td><td>114"</td><td>120"</td> </tr> <tr> <td>120"</td><td>126"</td><td>132"</td><td>138"</td><td>144"</td> </tr> <tr> <td>144"</td><td>150"</td><td>156"</td><td>162"</td><td>168"</td> </tr> </table>	12"	18"	24"	30"	36"	48"	54"	60"	66"	72"	72"	78"	84"	90"	96"	96"	102"	108"	114"	120"	120"	126"	132"	138"	144"	144"	150"	156"	162"	168"	<ul style="list-style-type: none"> • Casting • Adjustment rings and mortar • Concrete cover and mortar • Steps (if present), wall and floor • Pipes and seals • If sediment is present, use a rod to determine depth and if it needs to be removed
12"	18"	24"	30"	36"																											
48"	54"	60"	66"	72"																											
72"	78"	84"	90"	96"																											
96"	102"	108"	114"	120"																											
120"	126"	132"	138"	144"																											
144"	150"	156"	162"	168"																											
<p>Oil Skimmer Quantity: 01</p>  <p>REINFORCED CONCRETE COVER CONFORMING TO ASTM C478</p> <p>24" x 36" RECTANGULAR OPENING</p> <p>MORTAR JOINT OR USE PRE-FORMED JOINT FILLER</p> <p>REINFORCED CONCRETE SECTIONS CONFORMING TO ASTM C478</p> <p>JOINTS SHALL BE TYPE R-8 WITH RUBBER "O"-RING GASKETS.</p> <p>SEAL OPENINGS AROUND PIPE WITH CONCRETE SLOTTED AND MORTAR BOTH INSIDE AND OUTSIDE OF MANHOLE STRUCTURE SHALL BE FINISHED SMOOTH</p> <p>CONSTRUCT BENCHES WITH CONCRETE FILL. THE TOP OF THE BENCHES SHALL MATCH SPRING LINE OF THE PIPES. THE BOTTOM OF THE BENCH SHALL PROVIDE A SMOOTH TRANSITION FROM INLET TO OUTLET.</p> <p>REINFORCED CONCRETE BASE SLAB CONFORMING TO ASTM C478</p> <p>1" MINIMUM CONCRETE FILL</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td>12"</td><td>18"</td><td>24"</td><td>30"</td><td>36"</td> </tr> <tr> <td>48"</td><td>54"</td><td>60"</td><td>66"</td><td>72"</td> </tr> <tr> <td>72"</td><td>78"</td><td>84"</td><td>90"</td><td>96"</td> </tr> <tr> <td>96"</td><td>102"</td><td>108"</td><td>114"</td><td>120"</td> </tr> <tr> <td>120"</td><td>126"</td><td>132"</td><td>138"</td><td>144"</td> </tr> <tr> <td>144"</td><td>150"</td><td>156"</td><td>162"</td><td>168"</td> </tr> </table>	12"	18"	24"	30"	36"	48"	54"	60"	66"	72"	72"	78"	84"	90"	96"	96"	102"	108"	114"	120"	120"	126"	132"	138"	144"	144"	150"	156"	162"	168"	<ul style="list-style-type: none"> • Casting • Adjustment rings and mortar • Concrete cover and mortar • Steps (if present), wall and floor • Pipes, snout and seals • If sediment is present, use a rod to determine depth and if it needs to be removed
12"	18"	24"	30"	36"																											
48"	54"	60"	66"	72"																											
72"	78"	84"	90"	96"																											
96"	102"	108"	114"	120"																											
120"	126"	132"	138"	144"																											
144"	150"	156"	162"	168"																											
<p>Detention Swale Quantity: 01</p>  <p>SEED MIXTURES IN ACCORDANCE WITH LANDSCAPE PLAN</p> <p>GRASS</p> <p>GRAVEL</p> <p>12" MIN. DEPTH</p> <p>18" MIN. DEPTH</p> <p>24" MIN. DEPTH</p> <p>30" MIN. DEPTH</p> <p>36" MIN. DEPTH</p> <p>42" MIN. DEPTH</p> <p>48" MIN. DEPTH</p> <p>54" MIN. DEPTH</p> <p>60" MIN. DEPTH</p> <p>66" MIN. DEPTH</p> <p>72" MIN. DEPTH</p> <p>78" MIN. DEPTH</p> <p>84" MIN. DEPTH</p> <p>90" MIN. DEPTH</p> <p>96" MIN. DEPTH</p> <p>102" MIN. DEPTH</p> <p>108" MIN. DEPTH</p> <p>114" MIN. DEPTH</p> <p>120" MIN. DEPTH</p> <p>126" MIN. DEPTH</p> <p>132" MIN. DEPTH</p> <p>138" MIN. DEPTH</p> <p>144" MIN. DEPTH</p> <p>150" MIN. DEPTH</p> <p>156" MIN. DEPTH</p> <p>162" MIN. DEPTH</p> <p>168" MIN. DEPTH</p> <p>174" MIN. DEPTH</p> <p>180" MIN. DEPTH</p> <p>186" MIN. DEPTH</p> <p>192" MIN. DEPTH</p> <p>198" MIN. DEPTH</p> <p>204" MIN. DEPTH</p> <p>210" MIN. DEPTH</p> <p>216" MIN. DEPTH</p> <p>222" MIN. DEPTH</p> <p>228" MIN. DEPTH</p> <p>234" MIN. DEPTH</p> <p>240" MIN. DEPTH</p> <p>246" MIN. DEPTH</p> <p>252" MIN. DEPTH</p> <p>258" MIN. DEPTH</p> <p>264" MIN. DEPTH</p> <p>270" MIN. DEPTH</p> <p>276" MIN. DEPTH</p> <p>282" MIN. DEPTH</p> <p>288" MIN. DEPTH</p> <p>294" MIN. DEPTH</p> <p>300" MIN. DEPTH</p> <p>306" MIN. DEPTH</p> <p>312" MIN. DEPTH</p> <p>318" MIN. DEPTH</p> <p>324" MIN. DEPTH</p> <p>330" MIN. DEPTH</p> <p>336" MIN. DEPTH</p> <p>342" MIN. DEPTH</p> <p>348" MIN. DEPTH</p> <p>354" MIN. DEPTH</p> <p>360" MIN. DEPTH</p> <p>366" MIN. DEPTH</p> <p>372" MIN. DEPTH</p> <p>378" MIN. DEPTH</p> <p>384" MIN. DEPTH</p> <p>390" MIN. DEPTH</p> <p>396" MIN. DEPTH</p> <p>402" MIN. DEPTH</p> <p>408" MIN. DEPTH</p> <p>414" MIN. DEPTH</p> <p>420" MIN. DEPTH</p> <p>426" MIN. DEPTH</p> <p>432" MIN. DEPTH</p> <p>438" MIN. DEPTH</p> <p>444" MIN. DEPTH</p> <p>450" MIN. DEPTH</p> <p>456" MIN. DEPTH</p> <p>462" MIN. DEPTH</p> <p>468" MIN. DEPTH</p> <p>474" MIN. DEPTH</p> <p>480" MIN. DEPTH</p> <p>486" MIN. DEPTH</p> <p>492" MIN. DEPTH</p> <p>498" MIN. 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DEPTH</p> <p>4218" MIN. DEPTH</p> <p>4224" MIN. DEPTH</p> <p>4230" MIN. DEPTH</p> <p>4236" MIN. DEPTH</p> <p>4242" MIN. DEPTH</p> <p>4248" MIN. DEPTH</p> <p>4254" MIN. DEPTH</p> <p>4260" MIN. DEPTH</p> <p>4266" MIN. DEPTH</p>																															

Photos Before Maintenance

Photos After Maintenance

Structure:	
Structure:	
Structure:	